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THIRTY-THIRD

ANNUAL REGISTER

1923-24

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"A generous education is the birthright of every man and woman in America."

—DAVID STARR JORDAN.

STANFORD UNIVERSITY, CALIFORNIA
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OFFICE DIRECTORY

[The rooms in the Inner Quadrangle are numbered consecutively, beginning at the left of the main entrance, ten numbers being allotted to each building. In the Outer Quadrangle forty numbers are allotted to each of the larger buildings and ten numbers to each one-story building, beginning with the Assembly Hall (number 120). The Administration Building is on the north façade of the Outer Quadrangle. The Engineering buildings south of the Quadrangles begin with number 500. The Library is the central building in the second quadrangle group. The Chemistry building is on the west avenue between the Quadrangles and the Museum. Anatomy and Bacteriology are in the old Museum building.]

Administration Building:

PRESIDENT, room 165.

COMPTROLLER, room 162.

REGISTRAR, room 164.

DEAN OF MEN, room 161.

DEAN OF WOMEN, room 163a.

ACADEMIC SECRETARY AND ALUMNI SECRETARY, room 174.

APPOINTMENT SECRETARY, room 170.

LOWER DIVISION COMMITTEE, room 163b.

COMMITTEE ON PUBLIC HEALTH, room 163b.

CITIZENSHIP, room 172.

The various departmental offices are given in the SCHEDULE and in the DIRECTORY OF OFFICERS AND STUDENTS.

The University Postoffice is *Stanford University, California.*

The University Telephone Office is *Palo Alto* (office and departmental telephones "Palo Alto 900" with local numbers added).

The University Railway Station and Telegraph and Express Offices are *Palo Alto, California.*

Requests for *University Bulletins,* blanks, and other printed matter, and inquiries regarding terms of admission, advanced standing, etc., should be addressed to THE REGISTRAR, *Stanford University, California.*

UNIVERSITY CALENDAR

1923

AUTUMN QUARTER

Oct.	1	Monday	Lower Division Registration (new students).
Oct.	2	Tuesday	Registration for Autumn Quarter.
Oct.	3	Wednesday	Instruction begins.
Oct.	5	Friday	Conferring of Degrees.
Nov.	29	Thursday	Thanksgiving Recess.
Dec.	2	Sunday	
Dec.	17–20	Monday–Thursday	End-Quarter Examinations.

1924

WINTER QUARTER

Jan.	2	Wednesday	Registration for Winter Quarter.
Jan.	3	Thursday	Instruction begins.
Jan.	4	Friday	Conferring of Degrees.
Feb.	22	Friday	Washington's Birthday.
Mar.	9	Sunday	Founders' Day.
Mar.	18–21	Tuesday–Friday	End-Quarter Examinations.

SPRING QUARTER

Mar.	31	Monday	Registration for Spring Quarter.
April	1	Tuesday	Instruction begins.
April	4	Friday	Conferring of Degrees.
June	14–18	Saturday–Wednesday	End-Quarter Examinations.
June	21	Saturday	Alumni Day.
June	22	Sunday	Baccalaureate Sunday.
June	23	Monday	Commencement.

SUMMER QUARTER

June	24	Tuesday	Registration for Summer Quarter.
June	25	Wednesday	Instruction begins.
July	4	Friday	Independence Day.
July	28	Monday	Second Half begins.
Aug.	28	Thursday–Saturday	End-Quarter Examinations.
Aug.	30		

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THE BOARD OF TRUSTEES

[The figures in parentheses indicate year of beginning of service.]

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JOSEPH DONOHOE GRANT, A.B. (1891), 114 Sansome, San Francisco
THOMAS TINGEY CRAVEN GREGORY, A.B. (1919),
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TIMOTHY HOPKINS (1885), Nevada Bank Bldg., San Francisco
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WILLIAM MAYO NEWHALL, B.S. (1912),
260 California St., San Francisco
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THE UNIVERSITY

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President: Ray Lyman Wilbur. (Adm. 165)
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Medical Adviser of Men: William Hulbert Barrow. (Adm. 173, Encina Gymnasium)

DEPARTMENT EXECUTIVES

[Office in parentheses.]

Anatomy: Arthur William Meyer. (m7)
Applied Mathematics: Leander Miller Hoskins. (275)
Bacteriology and Experimental Pathology: Edwin William Schultz. (m4)
Botany: Douglas Houghton Campbell. (468)
Chemistry: Robert Eckles Swain. (c44.)
Civil Engineering: Charles Benjamin Wing. (278)
Classical Literature: Augustus Taber Murray. (250)
Economics: Murray Shipley Wildman. (223)
Education: Ellwood Patterson Cubberley. (51)
Electrical Engineering: Harris Joseph Ryan. (505)
English: John S. P. Tatlock.† (212)
Geology: Eliot Blackwelder. (340)
Germanic Languages: William Alpha Cooper. (116)
History: Payson Jackson Treat. (236)
Law: Marion Rice Kirkwood. (5)

† Acting.

Mathematics: Robert Edgar Allardice. (70)
Mechanical Engineering: William Frederick Durand. (260)
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Philosophy: Henry Waldgrave Stuart. (93)
Physics: David Locke Webster. (389)
Physiology: Ernest Gale Martin. (482)
Political Science: Victor J. West. (22)
Psychology: Lewis Madison Terman. (399)
Romanic Languages: Oliver Martin Johnston. (246)
Zoology: Charles Henry Gilbert. (443)

Citizenship: Edgar Eugene Robinson. (172)
Food Research: Carl Lucas Alsberg. (30)
Hoover War Library: Ephraim Douglass Adams. (Univ. Library)
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† Acting.

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† Absent for 1923–24. ‡Acting.

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[Name; office; residence telephone; title; residence; postoffice. Postoffice in all cases *Stanford University* except where University residence is followed by initial letter of town ("p" indicates *Palo Alto* postoffice; "Mayfield-m" *Mayfield* postoffice, etc.). Street address *Palo Alto* or *Campus* unless otherwise named. Brackets indicate absence on leave for the year. The dagger (†) marks the names of men who are married. The figures in parentheses after the name indicate the quarters in active service during the year, e.g., 123 means autumn, winter, and spring quarters.]

Emeritus List

†Anderson, Melville Best, Menlo Park 773
Professor of English Literature, Emeritus, Menlo Park
A.M., Butler University, 1877; LL.D., Aberdeen, 1906. At Stanford since 1891, Emeritus since 1910.

Angell, Frank, PA 87
Professor of Psychology, Emeritus, 1200 Bryant-p
B.S., Vermont, 1878; Ph.D., Leipzig, 1891; L.H.D., Vermont, 1892. At Stanford since 1892, Emeritus since 1922.

†Barkan, Adolph,
Professor of Structure and Diseases of Eye, Ear, and Larynx, Emeritus, 2209 Laguna, SF-sf
M.D., University of Vienna, 1866; LL.D., University of Glasgow, 1901. At Stanford since 1909, Emeritus since 1911.

†Cooper, Charles Miner, Fillmore 1821
Clinical Professor of Medicine, Emeritus, 2550 Buchanan, SF-sf
M.B.Ch.B., Edinburgh, 1897. At Stanford since 1918, Emeritus since 1922.

Griffin, James Owen, PA 1054
Professor of German, Emeritus, 14 Alvarado
Graduate Pennsylvania State Normal School, 1873. At Stanford since 1891, Emeritus since 1917.

†Jenkins, Oliver Peebles, PA 1151M
Professor of Physiology and Histology, Emeritus, 3 Lasuen
A.B., Moore's Hill College, 1869, A.M., 1872; M.S., Indiana, 1886, Ph.D., 1889; LL.D., Moore's Hill College, 1916. At Stanford since 1891, Emeritus since 1916.

†Jordan, David Starr, PA 1001
Chancellor, Emeritus, Serra House
M.S., Cornell, 1872; M.D., Indiana Medical College, 1875; Ph.D., Butler College, 1878; LL.D., Cornell, 1886, Johns Hopkins, 1902, Illinois College, 1903, Indiana, 1909, California, 1915, Western Reserve, 1915. President of the University, 1891–1913, Chancellor, 1913–16, Emeritus since 1916.

Martin, Lillien Jane, Sutter 3489
Professor of Psychology, Emeritus, 821–822 Shreve Bldg., SF-sf
A.B., Vassar, 1880; M.L.A., and honorary Ph.D., Bonn, 1913. At Stanford since 1899, Emeritus since 1916.

†Marx, Charles David, PA 255
Professor of Civil Engineering, Emeritus, 357 Kingsley

B.C.E., Cornell, 1878; C.E., Karlsruhe Polytechnicum, 1881; LL.D., California, 1918. At Stanford since 1891, Emeritus since 1923.

†Sanford, Fernando, PA 646
Professor of Physics, Emeritus, 450 Kingsley-p

B.S., Carthage College, 1879, M.S., 1882. At Stanford since 1891, Emeritus since 1919.

*Stillman, John Maxson,
Professor of Chemistry, Emeritus,

Ph.B., California, 1874, Ph.D., 1885, LL.D., 1916. At Stanford since 1891, Emeritus since 1917.

†Willis, Bailey, PA 1118
Professor of Geology, Emeritus, 5 Lasuen

E.M., Columbia School of Mines, 1878, C.E., 1879; Hon. Ph.D., University of Berlin, 1910. At Stanford since 1915, Emeritus since 1922.

Active List

†Abrams, Le Roy, (123) PA 1125
Professor of Botany, 19 Cabrillo

A.B., Stanford, 1899, A.M., 1902; Ph.D., Columbia, 1910. Acting Professor of Botany, University of Idaho, 1899–1900; Assistant in Botany, Stanford University, 1900–02, Instructor, 1902–04; Fellow in Botany, Columbia University, 1904–05; Assistant Curator, Division of Plants, United States National Museum, 1905–06; Lecturer in Botany, University of California, first semester, 1915–16; Field Assistant, U. S. Department of Agriculture, summer, 1918. At Stanford 1900–04, and since 1906.

†Adams, Ephraim Douglass, (123) PA 1058
Professor of History, 7 Cabrillo

A.B., Michigan, 1887, Ph.D., 1890; LL.D., Grinnell, 1917; Litt.D., Tufts, 1918. Principal of High School, McGregor (Ia.), 1887; Principal of High School, Saginaw (Mich.), 1889; Special Agent in Charge of Street Railways, Eleventh Census, Washington (D.C.), 1890; Assistant Professor and afterward Professor of European History, University of Kansas, 1891–1902. At Stanford since 1902.

†Addis, Thomas, (123) Sausalito 350
Professor of Medicine, 201 San Carlos, Sausalito-s

M.B.Ch.B., Edinburgh, 1905; M.D., and M.R.C.P., 1908. Clinical Assistant, Medical Out-Patient Department, Royal Infirmary of Edinburgh, 1908, 1911; Medical Registrar, Leith Hospital, 1911; Carnegie Research Scholar and Fellow, 1908–11; Director of the Clinical Laboratory, Lane Hospital, since 1911. At Stanford since 1911.

[†Alden, Raymond Macdonald, PA 288
Professor of English, 427 Embarcadero]

A.B., Pennsylvania, 1894; A.M., Harvard, 1896; Ph.D., Pennsylvania, 1898. Instructor in English, Columbia University, 1894–95; Assistant in English, Harvard University, 1896–97; Senior Fellow in English, University of Pennsylvania, 1898–99, Instructor, 1899–1901; Assistant Professor of English Literature and Rhetoric, Stanford University, 1901–09, Associate Professor of English, 1909 11; Professor of English, University of Illinois, 1911–14; Acting Associate Professor, University of Chicago, Summer Quarter, 1910; Acting Professor, Harvard University, Summer Session, 1912, Columbia University, 1916, 1919, 1923–24. At Stanford 1901–11, and since 1914.

* Deceased December 13, 1923.

†ALDERSON, HARRY EVERETT, (1234) Fillmore 4548
Clinical Professor of Medicine (Dermatology), 2649 Green, SF-sf

M.D., California, 1900. Assistant in Skin Diseases, Medical Department of University of California, 1906–12; Professor of Art Anatomy, California School of Design, 1906–12; Chief of Skin Clinic, San Francisco Fruit and Flower Mission. At Stanford since 1912.

ALLARDICE, ROBERT EDGAR, (123) PA 1036
Professor of Mathematics, County Road

A.M., Edinburgh, 1882. Baxter Scholar in Mathematics, University of Edinburgh, 1882–83, Drummond Scholar in Mathematics, 1883–84; Assistant Professor of Mathematics, University of Edinburgh, 1883–92. At Stanford since 1892.

†ALLEN, CLIFFORD GILMORE, (123) PA 1031J
Professor of Romanic Languages, 25 Alvarado

A.B., Boston, 1900; A.M., Stanford, 1903; Docteur de l'Université de Paris, 1916. Student, University of Paris, 1903–04; Fellow of Boston University and Student at Universities of Paris and Madrid, 1904–05. At Stanford since 1901.

†ALLEN, WARREN D., (1234) PA 1151J
Organist, 2 Salvatierra

Associate, American Guild of Organists; Pupil of Rudolph Ganz and Alex von Fielitz, Berlin, 1909–10; studied organ with C. M. Widor, Paris, 1911; member of Busoni Class, Basel, Switzerland, September, 1910; Dean of Conservatory of Music, College of the Pacific, 1913–19. At Stanford since 1918.

†ALMACK, JOHN CONRAD, (1234)
Associate Professor of Education, 331 Dartmouth, Mayfield

B.S., Oregon, 1920; Ph.D., Stanford, 1923. At Stanford since 1922.

ALMOND, NINA, (1234) PA 1151M
Librarian, Hoover War Library, 3 Lasuen

†ALSBERG, CARL LUCAS, (1234) PA 1357J
Director and Executive Secretary, Food Research Institute, 436 Palo Alto Ave.

A.B., Columbia, 1896, A.M., 1900, M.D. (College of Physicians and Surgeons), 1900. Student, Universities of Strassburg and Berlin, 1900–03; Assistant in Physiological Chemistry, Harvard University, 1902–05, Instructor in Biological Chemistry, 1905–08; Chemical Biologist, Bureau of Plant Industry, United States Department of Agriculture, 1908–12; Chief, Bureau of Chemistry, 1912–21.

†ANDERSON, FREDERICK, (123) PA 798R
Assistant Professor of French, Cedro Cottage

A.B., Stanford, 1911; A.M., Harvard, 1912; Ph.D., Yale, 1915. Instructor in French and Spanish, Reed College, 1912–13, Sheffield Scientific School, 1913–14, Yale University, 1914–15; Fellow in Yale University, 1914–15. At Stanford since 1920.

†ANDERSON, HENRY STOW, (123) PA 1736J
Instructor in Citizenship, 411 Yale, College Terrace-Box 83, m

A.B., Stanford, 1922, A.M., 1923. Lecturer in Problems of Citizenship, San Francisco State Teachers' College, 1924. At Stanford since 1923.

†ARNOLD, CLEMENT HARISSE, (123) Pacific 9240
Clinical Instructor in Medicine, 3829 Jackson, SF-sf

A.B., Stanford, 1910; M.D., Johns Hopkins, 1918. At Stanford since 1919.

†Ashley, Rea Ernest, (123) Bayview 5905
Clinical Instructor in Surgery (Otology, Rhinology, Laryngology), 215 25th Ave., SF-sf

B.S., University of Illinois, 1917, M.D., 1919. Assistant, Department of Bacteriology and Pathology, University of Illinois, 1917–19; Assistant Resident Physician, Stanford University Hospital, 1919–20, Resident, Ear, Nose and Throat, 1920–22. At Stanford since 1921.

†Bacher, John Adolph, (1234) Pacific 3334
Assistant Clinical Professor of Surgery (Otology, Rhinology, Laryngology), 157 25th Ave., SF-sf

A.B., Stanford, 1899; M.D., Harvard, 1911. At Stanford since 1917.

†Bachrodt, Walter Lewis, (4)
Acting Instructor in Education (Summer Quarter), 590 S. 15th, San Jose-sj

A.B., Stanford, 1920, A.M., 1921. Superintendent of City Schools, San Jose, since 1921.

Bailey, Margery, (1234) PA 662J
Instructor in English, 723 Hamilton

A.B., Stanford, 1914, A.M., 1916; Ph.D., Yale, 1922. Fellow in English, Yale University, 1921–22. At Stanford since 1914.

†Barkan, Hans, (123) Bayview 4689
Assistant Clinical Professor of Surgery (Ophthalmology), 21 Commonwealth, SF-sf

A.B., Stanford, 1905; M.D., Harvard Medical School, 1910. Assistant in Pathology, Harvard Medical School, 1910–11, Instructor, 1911–12; Pathologist to the Long Island Hospital and Boston City Almshouse, 1911–12; Voluntary Assistant, II, Eye Clinic, Vienna, 1912–14. At Stanford since 1914.

†Barkan, Otto, (123) Fillmore 3353
Clinical Instructor in Surgery (Ophthalmology), 2058 Vallejo, SF-sf

A.B., Trinity College, Oxford, 1909.

Barnes, Wallace Harold, (123) Sutter 960
Clinical Instructor in Medicine, Hotel Turpin, SF-sf

M.D., Jefferson Medical College, 1918. At Stanford since 1920.

Barnett, George de Forest, (123) PA 899
Assistant Clinical Professor of Medicine, 15 Mirada

A.B.,Stanford, 1906, A.M., 1909, M.D., 1913. Instructor in Chemistry, Stanford University, 1909–10; Student, Johns Hopkins Medical School, 1910–12; Senior House Officer, Lane Hospital, 1914–15; Lieutenant, M. C., U.S.N., R.F., 1917–19. At Stanford since 1915.

Barrett, Don Carlos, (4) PA 1365
Acting Professor of Economics (Summer Quarter), 33 Salvatierra

Ph.B., Earlham, 1889; Ph.D., Harvard, 1901. Principal, Secondary Schools, 1889–92; Instructor in History, Earlham College, 1892–93; Graduate Student, University of Chicago, 1893–94, Harvard University, 1895–97, University of Berlin, 1903–04; Instructor and Professor of Economics, Haverford College, since 1897, Dean, 1904–08.

†Barrow, William Hulbert, (123) PA 883
Professor of Physical Education, Medical Adviser of Men, Director of Encina Gymnasium, 17 Salvatierra

A.B., Harvard, 1908, M.D., 1916. House Officer, Medical Service, Peter Bent Brigham Hospital, Boston, 1916–17; First Lieutenant and Captain M. C., U.S.A., 1917–21; A.E.F., 1917–19; Medical Supervisor and Athletic Adviser, Middlesex School, Concord, Mass., 1921–22. At Stanford since 1922.

†Bassett, Lee Emerson, (234) PA 1080
Professor of English, 9 Cabrillo

A.B., Stanford, 1901. Graduate, Cumnock School of Oratory, Los Angeles, 1898; Instructor in Public Speaking, University of Southern California, 1898–99; Student, School of Expression, Boston, 1901; Acting Associate Professor of Public Speaking, University of Washington, 1912–13; Professor of Public Speaking, University of Colorado, Summer Session, 1919, 1923, University of California, Intersession, 1922. At Stanford since 1900.

†Baumberger, James Percy, (1234) PA 442
Assistant Professor of Physiology, 328 Churchill

B.S., California, 1914; M.S., Harvard, 1916, D.Sc., 1918. Student, Yale Army Laboratory School, 1918; Assistant in Zoology, Harvard University, 1914–18, Assistant in Botany, 1918, Austin Teaching Fellow in Zoology, 1917–18; Assistant in Physiology, Radcliffe College, 1917, Assistant in Entomology, 1918; Instructor in Natural Sciences, Lowthorpe Horticulture School, 1915–18; Traumatic Shock Laboratory, A.E.F., 1918–19. At Stanford since 1919.

†Beach, Edward Latimer, (123) PA 1612
Lecturer in Naval and Military History, 525 Channing-p

Graduate, U. S. Naval Academy, 1888. Instructor, U. S. Naval Academy, 1901–03, 1906–08; Captain, U. S. Navy, retired. At Stanford since 1921.

†Beach, Walter Greenwood, (123) PA 1172R
Professor of Social Science, 540 University-p

A.B., Marietta, 1888; A.B., Harvard, 1891, A.M., 1892. Professor of Philosophy and History, Marietta College for Women, 1893–97; Student, Stanford University, 1897–98; Assistant Professor and afterward Professor and Head of Department of Economic Science and History, State College of Washington, 1898–1910; Professor of Social Science, University of Washington, 1910–17; Dean of College of Sciences and Arts, and Professor of Social Science, State College of Washington, 1917–20. At Stanford since 1920.

Becker, Joseph Adam, (4)
Acting Assistant Professor of Physics (Summer Quarter), Stanford Union

A.B., Cornell, 1918, Ph.D., 1922. Research Physicist Bureau of Standards, Westinghouse Electric Manufacturing Company and Western Electric Company, Pittsburgh, Pa., 1918–19; National Research Fellow in Physics, California Institute of Technology, since 1922.

†Becking, Lawrence B., (1234)
Assistant Professor of Economic Biology, San Juan

A.B., Utrecht, 1917, M.S., 1919, D. Sc., 1921; Ph.D., Stanford, 1921. At Stanford since 1920.

Beebe, Lela June, (4) PA 1161W
Acting Medical Adviser of Women (Summer Quarter), San Juan

A.B., Stanford, 1904; M.D., California, 1908. In General Practice, 1908–18; Acting Assistant Surgeon, U. S. P. H. S., 1918–19; College Physician and Assistant Professor of Hygiene, Mills College, 1919–21; Lecturer in Physical Education, Stanford University, Summer Quarter, 1921; in Practice of Medicine, Preventive Pediatrics, since 1921.

BENNETT, MARGARET ELAINE, (123) PA 1308R
Instructor in Citizenship, 641 Gilman-p

A.B., Stanford, 1918, A.M., 1919. Assistant in History, Stanford University, 1918–19; Instructor in History and Civics, Berkeley High School, 1919–23. At Stanford since 1923.

†BENNETT, MERRILL KELLEY, (1234) PA 1264R
Junior Associate, Food Research Institute, 140 Churchill-p

Ph.B., Brown, 1920, A.M., 1921.

†BINGHAM, JOSEPH WALTER, (1234) PA 1585W
Professor of Law, 653 Melville

A.B., Chicago, 1902, J.D., 1904. In practice of law, Chicago, 1904–05; Acting Assistant Professor of Law, Cornell University, 1905–07; Professor of Law, University of Chicago, Summer Quarter, 1916. At Stanford since 1907.

†BLACKWELDER, ELIOT, (123) PA 895R
Professor of Geology, Escondite Cottage

A.B., Chicago, 1901, Ph. D., 1914. Fellow and Assistant in Geology, University of Chicago, 1902–03; Paleontologist, Carnegie Institution Expedition to China, 1903–04; Instructor and afterward Professor of Geology, University of Wisconsin, 1905–16; Professor and Head of Department of Geology, University of Illinois, 1916–19; Lecturer in Geology, University of Chicago, 1907, 1916, Stanford University, 1919, Harvard University, 1921–22; Geologist, U. S. Geological Survey, 1902, 1906–18; Chief Geologist, Argus Oil Company, 1919–21; Manager, Teton Syndicate, 1921–22. At Stanford since 1922.

†BLAIR, JOHN EDWARD, (123)
Instructor in Bacteriology, 524 University-p

A.B., Clark, 1920; M.S., Brown, 1921, Ph. D., 1923. Graduate Assistant in Biology, Brown University, 1920–21, Instructor, 1921–22, Arnold Fellow in Biology, 1922–23. At Stanford since 1923.

†BLAISDELL, FRANK ELLSWORTH, (123) Pacific 3482
Professor of Surgery, 1520 Lake, SF-sf

M.D., Cooper Medical College, 1889. Demonstrator of Anatomy, Cooper Medical College, 1903, Instructor in Biology and Embryology, 1900–09, in Histology, 1907–09, Assistant Professor of Anatomy, 1904–05, Associate Professor, 1907–12. At Stanford since 1910.

BLICHFELDT, HANS FREDERIK, (123) PA 435
Professor of Mathematics, College Terrace

A.B., Stanford, 1896; Ph.D., Leipzig, 1898. At Stanford since 1898.

†BOARDMAN, WALTER WHITNEY, (123) Fillmore 2506
Associate Clinical Professor of Medicine (Actinography), 37 Walnut, SF-sf

M.D., Cooper Medical College, 1909. Assistant in Phipps Dispensary, Johns Hopkins Hospital, 1910, Assistant in Actinography and Externe in Gynecology, 1911. At Stanford since 1912.

†BOEZINGER, BRUNO, (123) PA 798W
Associate Professor of German, Menlo Heights

A.B., Fort Worth University, 1894, A.M., 1895; Ph.D., Stanford, 1910. Instructor in German, North Texas Normal School, 1895–98; Principal, German Department, San Antonio (Texas) H. S., 1899–1906; Instructor in German, Summer School, University of Texas, 1896. At Stanford since 1906.

BOYLE, CHARLES EMERSON, JR., (123) PA 812W
Assistant Professor of Military Science and Tactics
(Field Artillery), 1060 High-p
A.B., Stanford, 1915. Captain, Field Artillery, U.S.A. At Stanford since 1920.

BOYNTON, LYMAN CROWELL, (1)
Acting Instructor in Chemistry (Autumn Quarter), Stanford Union
B.S., University of Michigan, 1916. In Chemical War Service, 1917–18; Student, University of California, 1920–21; Student and Research Assistant, Columbia University, 1921–23.

BRAND, ELIZABETH MORGAN, (1234) PA 1270J
Secretary to Dr. Taylor, Food Research Institute, Kingscote
At Stanford since 1920.

†BRANDSTEN, ERNST M., (123)
Associate Director of Encina Gymnasium, Searsville Lake
Teacher of Swimming, Municipal Baths, Stockholm, Sweden, 1905; Swimming Coach, Neptune Swimming Club, Stockholm, 1906, University of California, 1911, 1913–15. At Stanford since 1915.

BRANDSTEN, GRETA JOHANNSEN (Mrs.), (123)
Instructor in Physical Education, Searsville Lake
At Stanford since 1916.

†BRIGGS, WILLIAM DINSMORE. (124) PA 260M
Associate Professor of English, 249 Lowell-p
A.B., Stanford, 1896; A.M., Harvard, 1899, Ph.D., 1900. Student, Johns Hopkins University, 1896–97; Instructor in English and German, University of Vermont, 1900–01; Instructor in English, Western Reserve University, 1901–06. At Stanford since 1906.

BROWN, ADELAIDE, (123) Pacific 999
Lecturer in Medicine (Child Hygiene), 45 16th Ave., SF-sf
A.B., Smith, 1888; M.D., Cooper Medical College, 1892. Interne, New England Hospital, Boston, Mass., 1893; Studying in Germany, 1894; General Practice, San Francisco, since 1894; Obstetrician to Alexander Maternity, 1899–1915.

†BROWN, BUFORD O., (123) PA 288
Assistant Professor of Journalism, 425 Embarcadero
A.B., Missouri, 1908, B. J., 1912. Bursar, Polytechnic College (Texas), 1909–11; Instructor in Journalism, University of Texas, 1914–17; Special Lecturer, Texas Agricultural and Mechanical College, Summer Sessions, 1922, 1923; Editor Plainview (Texas) *Evening Herald*, 1912–14, Vernon (Texas) *Record*, 1918–22; Staff Correspondent, Wichita Falls (Texas) *Times*, 1922. At Stanford since 1923.

†BROWN, CARLETON, (4) PA 933
Acting Professor of English (Summer Quarter), 11 Salvatierra
A.B., Carleton, 1888; A.M., Harvard, 1901, Ph.D., 1903. Shattuck Scholar, Harvard University, 1901–03; Instructor in English, Harvard University, 1903–05; Associate in English Philology, Bryn Mawr College, 1905–07, Associate Professor, 1907–10, Professor, 1910–17, and since 1921; Professor of English, University of Minnesota, 1917–21; Exchange Professor, University of Oxford, 1919–20.

†Brown, Harold Chapman, (124) PA 1006
Associate Professor of Philosophy, Cooksey Lane

A.B., Williams, 1901; A.M., Harvard, 1903, Ph.D., 1905. Student, University of Berlin, 1903–04; Assistant in Philosophy, Harvard University, 1904–06; Instructor in Philosophy, Columbia University, 1906–14. At Stanford since 1914.

Brown, Joseph Grant, (123) PA 461M
Assistant Professor of Physics, 1013 Ramona-p

A.B., Stanford, 1901, A.M., 1903. Graduate, Illinois State Normal University, 1894, Instructor in Physics and Chemistry, 1894–98. At Stanford since 1900.

†Brunquist, Ernest Herman, (4)
Acting Instructor in Physiology (Summer Quarter), Pacific Grove-pg

A.B., Bates, 1912; A.M., Michigan, 1920; Ph.D., Stanford, 1923.

Buckingham, Elisabeth Lee, (123) PA 1746W
Assistant Professor of English, 4 Lasuen

A.B., Stanford, 1910, A.M., 1914. Student, Columbia College of Expression, Summer, 1913; Teacher of Public Speaking, State Normal School, San Jose, 1914; Student, Columbia University, 1917–18, and Summer Sessions, 1916, 1919. At Stanford since 1911.

Bunting, Helen Masters, (1234) PA 1161W
Assistant Professor, and Director of Physical Education, San Juan

Graduate, Department of Hygiene, Wellesley College, 1912. Instructor in Physical Education, Centenary Collegiate Institute, Hackettstown (N.J.), 1912–14; Director, Physical Education for Women, University of Colorado, 1914–19. At Stanford since 1919.

†Burdick, William Leroy, (124)
Instructor in Chemistry, 1740 Middlefield-p

A.B., Kansas, 1909; A.M., Yale, 1912; Ph.D., Stanford, 1923. Assistant in Chemistry, Yale University, 1912; Instructor in Chemistry, Oahu College, Honolulu, 1913; Principal of High School, Essex, Connecticut, 1913–20; University Fellow in Chemistry, Stanford University, 1921–23. At Stanford since 1923.

†Burlingame, Leonas Lancelot, (123) PA 1144
Associate Professor of Botany, 24 Alvarado

Ph.B., Ohio Northern University, 1901; A.B., Chicago, 1906, Ph.D., 1908. Instructor in Biology, Ohio Northern University, 1901–04; Fellow in Botany, University of Chicago, 1906, Assistant, 1906–08. At Stanford since 1908.

†Burrows, John Robert, (123) Fillmore 2833
Assistant Clinical Professor of Surgery, (Anesthesia), 2238 California

M.D., Cooper Medical College, 1906. Assistant in Ophthalmology, Cooper Medical College, 1909; Assistant Anesthetist, Lane Hospital, since 1910.

†Buss, Fred Earle, PA 965M
Acting Associate Professor of Geology (Summer Quarter), College Terrace, Box 345-p

A.B., Brigham Young University, 1913; A.M., Stanford, 1924. Professor of Geology and Geography, Brigham Young University, since 1914.

†Butler, Edmund, (123) Fillmore 1985
Assistant Clinical Professor of Surgery, 2469 Jackson, SF-sf

M.D., Cooper Medical College, 1911. Resident Surgeon and Senior Interne in Surgery, Lane Hospital, 1912–14; Surgeon, Municipal Emergency Hospital, since 1914; Associate Member of Staff of St. Luke's Hospital since 1914.

Campbell, Douglas Houghton, (23) PA 1036
Professor of Botany, County Road

Ph.M., Michigan, 1882, Ph.D., 1886. Teacher of Biology, Detroit High School, 1882–86; Student at Bonn, Tübingen, and Berlin, 1886–88; Professor of Botany, Indiana University, 1888–91. At Stanford since 1891.

†Canning, John Bennet, (123) PA 1013J
Assistant Professor of Economics, 1535 Bryant

Ph.B., Chicago, 1913. Graduate Scholar in Political Economy, University of Chicago, 1913–14, Assistant, 1914–15, Instructor, 1915–17. At Stanford since 1919.

Capps, Isabel, (123) PA 1025
Instructor in Physical Education, 1 Salvatierra

Instructor in Physical Education, University of Wisconsin, 1923. At Stanford since 1923.

†Carruth, William Herbert, (123) PA 1685 W
Professor of Comparative Literature, Matadero Ave., Mayfield-m

A.B., Kansas, 1880, A.M., 1883; A.M., Harvard, 1889, Ph.D., 1893. Student, Universities of Berlin and Munich, 1885–86; Morgan Fellow at Harvard University, 1888–89; Instructor in English, University of Kansas, 1879–80, Assistant Professor of Modern Languages, 1880–82, Professor, 1882–89, Professor of German, 1889–1913, Vice-President, 1901–13; Professor of German Literature, University of Wisconsin, Summer Session, 1907; President, Central Division American Modern Language Association, 1894–97. At Stanford since 1913.

†Cathcart, Arthur Martin, (123) PA 197
Professor of Law, 1215 Emerson

A.B., Stanford, 1896. Student, Harvard University, 1896–97; Attorney at Law, Colorado Springs (Colo.), 1903–04; Lecturer in Law, University of California, Summer Session, 1908; Professor of Law, University of Chicago, Summer Quarter, 1911. At Stanford since 1904.

†Catton, Joseph Henry, (23) Fillmore 94
Clinical Instructor in Medicine (Neurology), 2511 Octavia, SF-sf

B.S., California, 1911; M.D., California, 1913. Voluntary Assistant in Medicine, University of California, 1914–16, Assistant in Medicine, 1916; Chief of Medical Clinic, San Francisco Polyclinic, 1917–19; Assistant Visiting Physician, San Francisco Hospital, 1914–17, Visiting Physician, 1917; Major, M.C., U.S.A. At Stanford since 1919.

†Chamberlain, William Edward, (1234) Sunset 130
Associate Professor of Medicine (Radiology), and
Director of the X-ray Laboratory, 11 San Leandro Way, SF-sf

B.S., California, 1913, M.D., 1916. Assistant in Roentgenology, University of California Medical School, 1916–17; Visiting Roentgenologist to the French Hospital, San Francisco, 1917; Roentgenologist of U. S. Base Hospital No. 2, 1917–18; Instructor in Roentgenology, University of California Medical School, 1919–20; Roentgenologist in Charge, Children's, Hahnemann, and St. Mary's Hospitals, San Francisco, 1919–20. At Stanford since 1920.

†Cheney, William Fitch, (123) Pacific 2573
Clinical Professor of Medicine, 33 Spruce, SF-sf

B.L., California, 1885; M.D., Cooper Medical College, 1889. Professor of Principles and Practice of Medicine, Cooper Medical College, 1898–1912. At Stanford since 1909.

†Clark, Arthur Bridgman, (234) PA 1023
Professor of Education (Graphic Art), 4 Cabrillo

B.Ar. Syracuse, 1888, M.Ar., 1891. Director of Trade Schools and Instructor in Drawing, New York State Reformatory, Elmira (N.Y.), 1888–89; Instructor in Architecture, Syracuse University, 1889–92; Student in Painting, New York School of Art and Académie Carmen, Paris, 1898–99; Instructor in Pottery, California School of Arts and Crafts, Berkeley, Summer Session, 1913, 1914; Director, San Francisco Art Association, 1917; Lecturer, California School of Fine Arts, 1919–20. At Stanford since 1892.

Clark, George Thomas, (1234) PA 1571M
Director of University Libraries, 1729 Emerson

B.S., California, 1886. Assistant Librarian, University of California, 1886–87; Deputy State Librarian, California State Library, 1887–90, Classifier, 1890–94; Librarian, San Francisco Public Library, 1894–1907. At Stanford since 1907.

†Clark, James Cameron, (123) PA 1578M
Associate Professor of Electrical Engineering, 535 Embarcadero-p

B.S., Iowa State College, 1907; M.E.E., Harvard, 1912; E.E., Iowa State College, 1917. Engineering Apprentice Course, Westinghouse Electric and Manufacturing Company, 1907–09; Instructor in Electrical Engineering, Case School of Applied Science, 1909–11; Transformer Engineering Specialist, General Electric Company, 1919–20. At Stanford since 1912.

†Clark, William Redwood Price, (123) West 1827
Clinical Professor of Medicine (Tuberculosis), 2710 Filbert, SF-sf

M.D., Cooper Medical College, 1899. Assistant Visiting Physician, City and County Hospital, San Francisco, 1901–04; Instructor in Medicine, Cooper Medical College, 1905–11; Visiting Physician, Clinic of the San Francisco Association for the Study and Prevention of Tuberculosis, 1909–12; Visiting Physician, City and County Tuberculosis Hospital, San Francisco, 1911–12. At Stanford since 1911.

Clifford, Connell, (13)
Acting Instructor in Economics, 1001 Ramona-p

A.B., Stanford, 1920. At Stanford since 1922.

†Clokie, Hugh MacDowall, (23)
Acting Instructor in Economics and Political Science, 653 Irwin, San Rafael-sr

A.B., Saskatchewan, 1918, A.M., 1919. Fellow in Harvard University, 1919–20; Instructor in Economics and Government, Rutgers College, 1920–21; Fellow in Queens College, Oxford, 1921–23. At Stanford since 1924.

†Coester, Alfred, (123) PA 340J
Assistant Professor of Romanic Languages, 435 Homer

A.B., Harvard, 1896, A.M., 1906, Ph.D., 1906. Student, University of Seville, Spain, 1901–02, University of Berlin, 1894–95, Sorbonne, 1895; Secretary-Treasurer, American Association of Teachers of Spanish, since 1917; Associate editor *Hispania;* Caballero de la real orden de Isabel la Católica; Corresponding member, Hispanic Society of America. At Stanford, Summer Quarter, 1919, and since 1920.

†Cooney, Harold A., (123)
Assistant Professor of Military Science and Tactics (Field Artillery), 603 Fulton-p

†Cooper, William Alpha, (134) PA 593
Professor of German, 35 Salvatierra

A.B., Marietta, 1892, A.M., 1897, Litt.D., 1917. Student, Universities of Bonn, Leipzig, and Paris, 1892–94; Instructor in German and French, Marietta College, 1895–99, Professor, 1899–1901. At Stanford since 1901.

†Coover, John Edgar, (123) PA 933
Fellow in Psychic Research, and Associate Professor of Psychology, 11 Salvatierra

A.B., Stanford, 1904, A.M., 1905, Ph.D., 1912. Principal, Como (Colo.) Schools, 1898–99; Principal, Sonora (Cal.) High School, 1905–07, Dixon High School, 1907–10; Assistant in Psychology, Stanford University, 1910–12; Captain, Sanitary Corps, U. S. A., Psychological Division, Medical Research Laboratory (Military Aeronautics), 1918–19. At Stanford since 1910.

[Cosgrave, Millicent Mary, West 1951
Assistant Clinical Professor of Medicine (Pediatrics), 2619 Octavia, SF-sf]

M.D., Cooper Medical College, 1902. Assistant, Children's Clinic, Cooper Medical College, 1904–08; Assistant, Medical Clinic, San Francisco Polyclinic, 1904–13; Chief, Gynecological Clinic, San Francisco Fruit and Flower Mission, 1906–13.

†Cottrell, Edwin Angell, (134) PA 109
Professor of Political Science, 257 Kingsley

A.B., Swarthmore, 1907; A.M., Harvard, 1913. Instructor in Political Science, Pennsylvania State College, 1907–11, Assistant Registrar, 1909–11; Assistant in Government, Harvard University, 1911–15; Swarthmore Fellow, 1912–13; Instructor in Government, Wellesley College, 1912–17; Lecturer in Constitutional Government, Brown University, 1915–16; Secretary of the Boston Budget Commission, 1915; Assistant Secretary, Boston Chamber of Commerce, 1916–17; Executive Secretary, Massachusetts Health Insurance Commission, 1917; Professor of Political Science, and Director of the Bureau of Governmental Research, Ohio State University, 1917–19; Special Investigator, United States Bureau of Efficiency, 1918; Visiting Lecturer in Government, Harvard University, Spring, 1922. At Stanford since 1919.

†Cowan, John Francis, (123) Fillmore 5645
Professor of Surgery, 37 Presidio, SF-sf

A.B., Stanford, 1902; M.D., Cornell University Medical College, 1910. Assistant and Acting Instructor in Physiology, Stanford University, 1903–06; Instructor in Physiology, Cornell University Medical College, 1906–09; Interne, New York Hospital, 1910–12, Resident Surgeon, 1912–13. At Stanford since 1913.

Cowgill, George Raymond, (4) PA 737
Acting Assistant Professor of Biochemistry (Summer Quarter), 6 Salvatierra

A.B., Stanford, 1916; Ph.D., Yale, 1921. Teaching Assistant in Physiology and Histology, Stanford University, 1916–17; Lieutenant in Sanitary Corps, U. S. A., 1918–19; Assistant in Physiological Chemistry, Yale University, 1920–21, Instructor since 1921.

CRAIG, FLORENCE M., (1234) Redwood 217R
Reviser, Catalogue Department, Library, Redwood City-rc

A.B., University of Minnesota, 1914; B.L.S., University of Illinois, 1917. At Stanford since 1918.

CRANE, ROBERT TREAT, (4) PA 1057
Acting Professor of Political Science (Summer Quarter), 7 Lasuen

A.B., Johns Hopkins, 1902, Ph.D., 1907; LL.B., University of Maryland, 1907. U. S. Consular Service, 1908–12; Assistant Professor of Political Science, University of Michigan, 1913–16, Associate Professor, 1916–18, Professor since 1918; Lecturer in Summer Sessions, Johns Hopkins University, 1919, University of Chicago, 1922, University of Colorado, 1923, in Winter Quarter, University of Chicago, 1923.

†CROOK, WELTON JOSEPH, (123) PA 1035
Associate Professor of Metallurgy, 9 San Juan

A.B., Stanford, 1911, Engineer, 1919. Chemist and Assayer, Department of Mines and Water Supply, Victorian Government, Australia, 1907–08; Assistant, Department of Metallurgy, Stanford University, 1910; Chief Chemist, Pacific Coast Steel Company, South San Francisco, 1911–13; Professor of Metallurgy, State School of Mines, South Dakota, 1913–17; Metallurgical Chemist, U. S. Bureau of Mines, P. P. I. E., 1915; Metallurgist and Chief Chemist, Pacific Coast Steel Company, 1917–19, Metallurgist and Chief Inspector, 1919–20, Chief Metallurgist, 1920–21; Coöperating Analyst, U. S. Bureau of Standards, since 1920. At Stanford since 1921.

†CROSS, CHARLES NORMAN, (123) PA 526W
Associate Professor of Mechanical Engineering, 26 Alvarado

M.E., Cornell, 1906. Assistant Engineer, Long Island State Hospital, Brooklyn (N.Y.), 1905; Dynamo and Switchboard Attendant with the New York Edison Co., New York City, 1905–06; Electrician with the Lackawanna Steel Co., Buffalo (N.Y.), 1906; with Turbine Research Department of General Electric Company, Lynn (Mass.), 1914–15. At Stanford since 1906.

†CUBBERLEY, ELLWOOD PATTERSON, (234) PA 1019
Professor of Education, and Dean of School of Education, 12 Cabrillo

A.B., Indiana, 1891; A.M., Columbia, 1902, Ph.D., 1905; LL.D., Iowa, 1923. Instructor in Science, Ridgeville College (Ind.), 1891; Professor of Physical Science, Vincennes University (Ind.), 1891–93, President, 1893–96; Superintendent of City Schools, San Diego (Cal.), 1896–98; Honorary Fellow, Columbia University, 1901–02, 1904–05; Professor of Education, University of California, Summer Sessions, 1901, 1906, University of Chicago, Summer Quarter, 1910, Harvard University, second half-year, 1910–11; Visiting Professor, Columbia University, Summer Sessions, 1907, 1914, 1916, second half-year, 1915–16. At Stanford since 1898.

†CULVER, GEORGE BLISS, (1234) PA 1365
Dean of Men, 33 Salvatierra

A.B., Stanford, 1897; LL.B., George Washington University, 1902. With Smithsonian Institution, Washington (D.C.), 1898–99; Head of Biological Department, Los Angeles High School, 1907–20. At Stanford since 1920.

†CUSHING, OSCAR KENNEDY, (123) Pacific 987
Lecturer in Law, 37 7th Ave., SF-sf

†CUTTER, LAWRENCE EDMINISTER, (123) PA 459M
Associate Professor of Mechanical Engineering, 627 Webster-p

A.B., Stanford, 1906. Machinist, Apprentice, and Journeyman, Union Iron Works, San Francisco, 1895–99, 1899–1902, 1903, 1904, Draftsman, 1905, 1906. At Stanford since 1906.

†Cutting, James Arthur, (123) San Jose, 1728
Assistant Clinical Professor of Medicine (Psychiatry), Agnew-a

A.B., Stanford, 1906; M.D., Cooper Medical College, 1911. Interne, Lane Hospital, 1911–12, Senior Medical Interne and House Officer, 1912–13; Assistant Physician, Agnew State Hospital, since 1913.

†Danforth, Charles Haskell, (123) PA 1596W
Professor of Anatomy, 951 Bryant-p

A.B., Tufts, 1908, A.M., 1910; Ph.D., Washington University, 1912. Fellow in Biology, Tufts College, 1908, Instructor, 1910–11; Teaching Fellow in Anatomy, Harvard Medical School, 1910–11; Instructor in Anatomy, Washington University School of Medicine, 1908–14, Associate, 1914–16, Associate Professor, 1916–22. At Stanford since 1922.

†Davidson, Percy Erwin, (234) Menlo Park, 1243W
Associate Professor of Education, Menlo Heights

A.B., Stanford, 1898; A.M., Harvard, 1905; Ph.D., Columbia, 1914. Teacher, Grammar and High Schools, San Diego (Cal.), 1898–1900; Supervisor of History and English Teaching, San Francisco State Normal School, 1900–03; Assistant in Education, San Diego State Normal, 1903–04; Graduate Student, Teachers' College, Columbia University, 1905–07; Instructor in Logic and History of Education, New York Training School for Teachers, 1906–07. At Stanford since 1907.

†Davis, Charles Wesley, (123) PA 111W
Director of Intramural Sports, 544 Byron-p

B.P.E., Y.M.C.A. College, Springfield (Mass.), 1918. U. S. Navy, 1918; Physical Director, Madison (N. J.), 1919–21, Cleveland Heights High School, Cleveland, O., 1921–22; sometime Athletic Director, Boys' Camps, Maine, Playground Instructor, Brookline, Mass., Commissioner, Boy Scouts, Madison, N. J., Swimming Instructor, Venice, Cal. At Stanford since 1922.

Davis, Gordon Arthur, (124) PA 964W
Instructor in English and Dramatics, 19 Salvatierra

A.B., Stanford, 1920. At Stanford since 1920.

†Davis, Harold McDonald, (234) PA 798W
Assistant Director of Minor Sports, University Park

†Davis, Joseph Stancliffe, (14) PA 1161J
Director, Food Research Institute, 23 Mirada

A.B., Harvard, 1908, Ph.D., 1913. Instructor in Economics and Sociology, Bowdoin College, 1912–13; Instructor in Economics, Harvard University, 1913–17; Tutor in the Division of History, Government and Economics, Harvard University, 1914–20; Assistant Professor of Economics, Harvard University, 1917–21; Assistant Statistician, American Shipping Mission and Statistician of the Allied Maritime Transport Council, London, 1918–19. At Stanford since 1921.

Davis, Paul Herbert, (1234)
Graduate Manager, Stanford Union

A.B., Stanford, 1922. At Stanford since 1923.

DeEds, Floyd, (123) West 9158
Instructor in Pharmacology, 582 16th Ave., SF-sf

A.B., Western Reserve, 1916, A.M., 1920; Ph.D., Stanford, 1924. Demonstrator in Biochemistry, Western Reserve University, 1916–17, 1919–20; Assistant, Pathological Laboratory, Base Hospital No. 4, Rouen, France, 1917–19; Second Lieutenant, Sanitary Corps, U. S. A., 1918; Teaching Assistant in Biochemistry, Harvard Medical School, 1920–21. At Stanford since 1921.

†Dickinson, Edwin DeWitt, (4) PA 860J
Acting Professor of Law (Summer Quarter), Kingscote

A.B., Carleton, 1909; A.M., Dartmouth, 1911; Ph.D., Harvard, 1918; J.D., Michigan, 1919. Instructor, Dartmouth College, 1913–15; Assistant Professor, University of Illinois, 1915–17; Professor of Law, University of Michigan, since 1919.

†Dickson, Ernest Charles, (123) Sunset 4298
Professor of Medicine, 155 San Fernando Way, SF-sf

B.A., Toronto, 1904, M.B., 1906, M.D., 1917. Assistant Demonstrator in Physiology, University of Toronto, 1904–05, George Brown Research Scholar, 1906–07; Assistant Resident Physician, Johns Hopkins Hospital, 1907–08; Instructor in Pathology and Bacteriology, Cooper Medical College, 1908–10; Fellow in Rockefeller Institute for Medical Research, 1910–13. At Stanford since 1910.

[†Dietrich, Waldemar Fenn, PA 1201R
Associate Professor of Metallurgy, 1320 Webster]

A.B., Stanford, 1913, Engineer, 1914. Acting Instructor in Mining, Stanford University, 1913–14; Engineer with Copper Queen Consolidated Mining Company, Bisbee (Ariz.), 1914–15; Engineer and later Assayer with Consolidated Arizona Smelting Company, Humboldt (Ariz.), 1916. At Stanford 1913–14, and since 1916.

†Dillon, James Root, (1234) Fillmore 3071
Assistant Clinical Professor of Surgery (Genito-Urinary), 2664 Greenwich, SF-sf

A.B., Stanford, 1908; M.D., Cooper Medical College, 1912. At Stanford since 1913.

†Doane, Rennie Wilbur, (234) PA 1766J
Associate Professor of Entomology, 527 Homer

A.B., Stanford, 1896. Assistant in Zoology and Botany, Washington State College, 1896–99, Assistant Professor of Zoology and Entomology, 1899–1901; Superintendent, Fisheries Experiment Station, Keyport (Wash.), 1901–03. At Stanford since 1905.

†Douglass, Harl Roy, (1234) PA 332R
Acting Associate Professor of Education, 50 Encina Ave.

B.S., Missouri, 1913, A.M., 1918. Supervisor, University of Missouri High School, 1913–14; Superintendent of Schools, Missouri and Oregon, 1914–19; Professor of Education, University of Oregon, since 1919.

†Drew, Elmer Reginald, (123) PA 1181W
Associate Professor of Physics, 1321 Waverley-p

B.S., California, 1888; Ph.D., Cornell, 1903. Student, University of Chicago, 1897–98, University of Berlin, 1903–05; Assistant in Physics, University of California, 1889–92, Instructor, 1892–1902. At Stanford since 1905.

†Durand, William Frederick, (123) PA 1582
Professor of Mechanical Engineering, 11 Cabrillo

Graduate, U. S. Naval Academy, 1880; Ph.D., Lafayette, 1888; LL.D., California, 1924. Engineer Corps, U. S. Navy, 1880–87; Special Duty as Assistant Professor of Mechanical Engineering, Lafayette College, 1883–85, Worcester Polytechnic Institute, 1887; Professor of Mechanics and Superintendent of Mechanical Department, Michigan State Agricultural and Mechanical College, 1887–91; Professor of Marine Engineering and Principal, Graduate School of Naval Architecture and Marine Engineering, Cornell University, 1891–1904. At Stanford since 1904.

†Eckart, William Rankine, (123) PA 227
Professor of Mechanical Engineering, 1445 Bryant-p

M.E., Cornell, 1895. Mechanical Engineer, Siemens Halske Electric Co., Chicago, 1895–96; Construction Engineer, Allison Ranch Mine, Grass Valley (Cal.), 1896–98; Testing Work for Fraser & Chalmers, in Hawaii and Mexico, 1898–99; with W. R. Eckart, Consulting Engineer, Hydraulic Power Plants and Mining Work, 1899–1903, summers of 1904–14; Consulting Engineer, Geary St. P. & O. R. R., San Francisco, 1902–06, Columbia Steel Company since 1915, C. F. Braun & Co. since 1918. At Stanford since 1903.

†Eldred, Wilfred, (1234) PA 1919
Associate, Food Research Institute, 1326 Byron

A.B., and A.M., Washington and Lee, 1909; A.M., Harvard, 1911, Ph.D., 1919. Thayer Scholar, Harvard University, 1910–11, Harris Fellow, 1911–12, Instructor in Economics, 1912–14; Instructor in History and Economics, San Diego High School and Junior College, 1914–15; Instructor in Economics, Stanford University, 1915–17; Special Agent, Federal Trade Commission, 1917–18, United States Food Administration, 1918–19; Statistician, United States Grain Corporation, 1919–20; Associate Professor of Business Administration, University of Virginia, 1920. At Stanford 1915–17, and since 1920.

†Elliott, Orrin Leslie, (1234) PA 1045
Registrar, 5 Cabrillo

Ph.B., Cornell, 1885, Ph.D., 1890. Fellow in History and Political Science, Cornell University, 1885–86, Instructor in English, 1886–91, Assistant Registrar and President's Secretary, 1890–91. At Stanford since 1891.

†Elmore, Jefferson, (12) PA 1604W
Associate Professor of Classical Literature, 11 Alvarado

A.B., Stanford, 1895, A.M., 1895, Ph.D., 1901. Principal of Merced County High School, 1895–97; Student, Universities of Bonn and Berlin, 1901–02. At Stanford since 1898.

Eloesser, Leo, (123) Prospect 3954
Clinical Professor of Surgery, 1132 Filbert, SF-sf

B.S., University of California, 1900; M.D., Heidelberg, 1907. Volunteer Assistant, Surgical Clinic, Heidelberg, 1906; Assistant, Cancer Institute, Heidelberg, 1906–07; Volunteer Assistant, Royal Surgical Clinic, Kiel, 1908–09; Volunteer Assistant, August Hospital, Berlin, 1909; Assistant in Surgery, University of California, 1910–12; Surgeon to Reserve Hospital Ettlingen and Reserve Hospital III, IV, V, Karlsruhe, 1915–16; Major, M. C., U. S. A., 1918; Chief of Orthopedic Service, Letterman General Hospital, 1918–19. At Stanford since 1913.

†Ely, Leonard Wheeler, (123) PA 264
Professor of Surgery (Orthopedics), 1010 Bryant-p

A.B., Columbia, 1889; M.D., College of Physicians and Surgeons, Columbia University, 1895. At Stanford since 1913.

†Emerson, James Gordon, (12) PA 270R
Associate Professor of English (Public Speaking), 420 Florence-p

B.S., Iowa State College, 1912; J.D., Stanford, 1915. Student, Harvard Law School, 1912–13, University of California Law School, Summer Session, 1914; Instructor in Public Speaking, Kansas State Agricultural College, 1915–16, Assistant Professor, 1916–17, Professor and Department Head, 1917–21; Military service in America and France (Signal Corps), 1918–19.

†EMGE, LUDWIG AUGUSTUS, (1234) Sunset 4849
Associate Professor of Obstetrics and Gynecology, 109 Edgewood, SF-sf

B.S., Chicago, 1912; M.D., Rush Medical College, 1914. Assistant in Anatomy, University of Chicago, 1912–13; Special Worker in Pathology, Rush Medical College, 1913–14; Interne, Memorial Institute for Infectious Diseases, and Presbyterian Hospital, 1914–15; Resident and Assistant in Gynecology and Obstetrics, University of California Hospital, 1915–17. At Stanford since 1917.

†ERWIN, ERNEST S., (1234) PA 1042J
Accountant, 23 Alvarado

†ESPINOSA, AURELIO MACEDONIO, (124) PA 676J
Professor of Romanic Languages, 16 Salvatierra

A.B., Colorado, 1902, A.M., 1904; Ph.D., Chicago, 1909. Assistant in Romance Languages, University of Colorado, 1901–02, Instructor, Summer Terms, 1904, 1905; Professor of Romance Languages, University of New Mexico, 1902–10; Fellow in Romance Languages and Instructor in Spanish, University of Chicago, 1908–09; Lecturer in Spanish Language and Literature, Summer Sessions, University of Chicago, 1914, University of California, 1912, 1915, 1922; Associate Editor, *Journal of American Folklore*, since 1914; Editor, *Hispania*, since 1917; member of Advisory Editorial Board of *Inter-America*, since 1917; corresponding member of the Royal Spanish Academy, 1921; Comendador con Placa de la Orden de Isabel la Católica, 1922. At Stanford since 1910.

†FABER, HAROLD KNIEST, (1234) Fillmore 3848
Professor of Medicine (Pediatrics), 3300 Clay, SF-sf

A.B., Harvard, 1906; M.D., Michigan, 1911. Medical Interne, New York Hospital, 1911–13; Resident Pathologist, Babies' Hospital, New York, 1913–14; Fellow, Rockefeller Institute, New York, 1914–15. At Stanford since 1915.

†FAIRCLOUGH, HENRY RUSHTON, (12) PA 1911
Professor of Classical Literature, 6 Cabrillo

A.B., Toronto, 1883, A.M., 1886, Litt.D., 1922; Ph.D., Johns Hopkins, 1896. Fellow in Classics, University College, Toronto, 1883–84; Classical and English Masters, Brockville High School, 1884–86; Graduate Scholar, Johns Hopkins University, 1886–87, Fellow, 1887; Lecturer in Greek and Ancient History, University College, Toronto, 1887–93; Professor of Latin, University of Wisconsin, Summer Session, 1906, Columbia University, Summer Session, 1908, University of Chicago, Summer Quarter, 1910; Professor of Latin, American School of Classical Studies, Rome, 1910–11; Order of St. Sava, Serbia, 1920; Officier de l'Ordre de la Couronne, Belgium, 1920. At Stanford since 1893.

FARMER, EDWARD MCNEIL, (13)
Acting Instructor in Education (Graphic Art), 559 Encina

A.B., Stanford, 1923.

†FARRINGTON, GUY STEVENS, (123) Franklin 7768
Lecturer on Speech Defects, 2300 Van Ness, SF-sf

Assistant, Defective Speech Clinic in Pediatrics, University of California, 1915–16; Assistant, Defective Speech Clinic, San Francisco Public Schools, 1916; Assistant, Defective Speech Clinic, Oakland Public Schools, 1917; Chief of Clinic, Defective Speech, College of Physicians and Surgeons, 1918. At Stanford since 1918.

FAST, LISETTE EMERY, (1234) PA 46
Secretary, Citizenship, Lagunita Knoll

A.B., Stanford, 1919, M.B.A., University of Washington, 1921. Research Assistant, Food Research Institute, Stanford University, 1922–23. At Stanford since 1922.

FEARING, FLORA MAY (Mrs.), (123) PA 1991W
Instructor in Citizenship, 177 Tasso-p

A.B., Stanford, 1917, A.M., 1918. Instructor in Political Science, Vassar College, 1918–19; Supervisor, Neuro-Psychiatric Cases, American Red Cross, Louisville, Ky., 1920; Director, Psychiatric Social Investigation, Cincinnati Mental Hygiene Survey, National Committee for Mental Hygiene, 1921; Lecturer in Economics and Sociology, Mills College, 1922–23. At Stanford 1921–22, and since 1923.

†FEARING, FRANKLIN SMITH, (1234) PA 1991W
Instructor in Psychology, 177 Tasso-p

A.B., Stanford, 1923, A.M., 1924. Assistant Director of Education, Washington State Reformatory, 1915–16; Member of Staff (in charge of Psychological Examinations), Psychiatric Division Medical Department, U. S. N., Hampton Roads Naval Base, 1918–19; Director Psychological Clinic serving Social Agencies, Louisville, Ky., 1919–21; Psychologist, Field Staff, National Committee for Mental Hygiene, Mental Hygiene Survey, Cincinnati, O., 1921–22. At Stanford since 1923.

†FERRIS, GORDON FLOYD, (1234) PA 1632M
Assistant Professor of Entomology, 667 Melville

A.B., Stanford, 1916, A.M., 1918. At Stanford since 1916.

FERSON, MERTON LEROY, (4)
Acting Professor of Law (Summer Quarter), 838 Cowper

Ph.B., Iowa, 1900, LL.B., 1901, A.M., 1905. Assistant Professor of Law, George Washington University, 1911–14, Professor, since 1914, Dean of the Law School, since 1917; Acting Professor of Law, University of Iowa, 1915–16, University of Missouri, 1923–24.

†FISH, JOHN CHARLES LOUNSBURY, (123) PA 1266
Professor of Railroad Engineering, 355 Kellogg-p

C.E., Cornell, 1892. Instructor in Civil Engineering, Cornell University, 1892–93; Division Engineer, Lake Shore & Michigan Southern Railway, 1906–08. At Stanford since 1893.

†FISHER, ARTHUR LAWRENCE, (123) Fillmore 3620
Assistant Clinical Professor of Surgery (Orthopedics), 3333 Jackson, SF-sf

B.S., California, 1896; M.D., Johns Hopkins, 1900. Resident House Officer, Johns Hopkins Hospital, 1900–01; Fellow, Rockefeller Institute for Medical Research, 1901–02; Assistant Visiting Surgeon, Mt. Zion Hospital, San Francisco, 1902–07; Assistant in Surgery, Lane Hospital, 1907–12; Assistant in Orthopedics, Stanford Medical School, 1912–16; Instructor in Orthopedic Surgery, University of California, 1916–19. At Stanford 1912–16, and since 1920.

†FISHER, HAROLD HENRY, (23)
Lecturer in History,

A.B., Vermont, 1911. Master, The Black Hall School, 1912, Mercersburg Academy, 1912–14, The Hill School, 1914–17; Student, Summer Sessions, Columbia University, 1914, Dartmouth College, 1916; First Lieutenant, Field Artillery, 1917, Captain (A.E.F.) 1918–19; on staff of *New Republic* and *Washington* (D.C.) *Herald,* 1919–20: with American Relief Administration, since 1920, Chief of Department of History and Publications, 1921–24, Curator of Archives, 1924. At Stanford since 1924.

†Fisher, Walter Kenrick, (234) Monterey 407W
Associate Professor of Zoology, 844 Laurel, Pacific Grove-pg

A.B., Stanford, 1901, A.M., 1903, Ph.D., 1906. Assistant, U. S. Biological Survey, 1897–1901, 1903; Assistant, U. S. Fish Commission, 1902, 1904; Curator, Department of Invertebrate Zoology, California Academy of Sciences. At Stanford since 1902.

†Fletcher, Harold Augustus, (123) Walnut 897
Clinical Instructor in Surgery (Otology, Rhinology, Laryngology), 1815 California, SF-sf

B.S., California, 1912; M.D., Stanford, 1916. Interne, Lane Hospital, 1916–17; M. R. C., U. S. N., 1918–19. At Stanford since 1919.

Fordyce, Elizabeth L., (1234) PA 1476J
Assistant Secretary to the President, Kingscote

B.S., Mills, 1916. At Stanford since 1920.

†Foster, Benjamin Oliver, (1234) PA 1021W
Associate Professor of Classical Literature, 22 Lasuen

A.B., Stanford, 1895; A.M., Harvard, 1897, Ph.D., 1899. Parker Fellow of Harvard University, studying in the American School of Classical Studies in Rome, 1899–1900; Acting Professor of Latin and Greek, State Normal College of Michigan, 1900–01; Instructor, University of California, Summer Session, 1908. At Stanford since 1901.

†Franklin, Edward Curtis, (123) PA 216
Professor of Organic Chemistry, and Dean of Graduate Study, 16 Mirada

B.S., Kansas, 1888, M.S., 1890; Ph.D., Johns Hopkins, 1894. Chemist to Palo Alto Plantation and Sugar Factory, Donaldsville (La.), 1888; Chemist to the Bella Vista Mining and Milling Co., Los Quemados, Costa Rica, 1897; Instructor in Chemistry, University of Kansas, 1888–90; Student, University of Berlin, 1890–91; Assistant in Chemistry, University of Kansas, 1891–93, Associate Professor, 1894–99, Professor of Physical Chemistry, 1899–1903; Member of the U. S. Assay Commission, 1907; Chief of the Division of Chemistry, U. S. Public Health Service, Washington (D.C.), 1911–13; Member Advisory Board, Bureau of Mines, Washington (D.C.), 1917–18; Physical Chemist, Bureau of Standards, 1918; Consulting Chemist, Ordnance Bureau, 1918. At Stanford since 1903.

†Fraser, Everett, (4) PA 1141M
Acting Professor of Law (Summer Quarter), 677 Melville

A.B., Dalhousie, 1907; LL.B., Harvard, 1910. Assistant Professor of Law, George Washington University, 1910 13, Professor, 1913–17, Dean, 1914–17; Professor of Law, University of Minnesota, since 1917, Dean of the Law School, since 1920.

†Friend, Will A., (1234)
Superintendent of the University Press, Stanford Union

Gale, Helen Avery, (1234) PA 1205W
Chief of Serial Department, Library, 940 Waverley-p

A.B., Stanford, 1909. At Stanford since 1913.

†Gardner, David Charles, (123) PA 1068
Chaplain, and Lecturer on Biblical History and Literature, 1a Alvarado

Graduate, Church Divinity School of the Pacific, 1897, D.D., 1920. Curate St. James Mission, San Francisco, 1898; Rector of All Saints Church, Palo Alto, 1898–1902. At Stanford since 1902.

†Geary, William Ducachet, (123) PA 1505J
Professor of Military Science and Tactics,
(Field Artillery) 17 Alvarado

Graduate, United States Military Academy, 1907. Major, Field Artillery, U. S. Army. At Stanford since 1923.

†Germann, Albert Frederick Ottomar, (234) PA 993J
Assistant Professor of Chemistry, 1035 Parkinson-p

A.B., Indiana, 1909, A.M., 1910; A.M., Wisconsin, 1910; Sc.D., Université de Genêvé, Suisse, 1912. Teaching Fellow in Chemistry, Indiana University, 1909; Assistant in Chemistry, University of Wisconsin, 1909–10; Student, Universities of Geneva and Berlin, 1910–12; Instructor in Chemistry, Adelbert College and the College for Women, Western Reserve University, 1913–15, Assistant Professor of Chemistry, 1915–21, Associate Professor, 1921; Professor of Chemistry, Cleveland Training School for Nurses, 1918; in charge of instruction in Chemistry, Cleveland School of Education, Summer Sessions, 1917–21. At Stanford since 1921.

†Gibbons, Henry Walter, (123) Fillmore 3740
Assistant Clinical Professor of Obstetrics and
Gynecology, 3491 Pacific, SF-sf

B.S., University of California, 1899; M.D., Cooper Medical College, 1902. Instructor in Pathology, Cooper Medical College, 1905–07, Instructor in Gynecology, 1907–11. At Stanford since 1912.

†Gibbons, Morton Raymond, (123) Pacific 1658
Lecturer on Medical Aspect of Insurance, 3979 Washington, SF-sf

A.B., California, 1891; M.D., Cooper Medical College, 1894. Instructor in Clinical Medicine, Cooper Medical College, 1904–09. At Stanford 1909–16, and since 1919.

Gilbert, Charles Henry, (123)
Professor of Zoology, 21 Salvatierra

B.S., Butler University, 1879; M.S., Indiana, 1882, Ph.D., 1883. Assistant in Natural Sciences and Modern Languages, Indiana University, 1880–84; Professor of Natural History, University of Cincinnati, 1884–89; Professor of Zoology, Indiana University, 1889–91; Assistant to the U. S. Bureau of Fisheries, since 1880; Assistant, in charge of scientific explorations of the U. S. S. "Albatross," 1889, 1890, 1902, 1904, 1906; in charge of salmon investigations for British Columbia since 1912. At Stanford since 1891.

†Gilman, Philip Kingsnorth, (123) Fillmore 7906
Clinical Professor of Surgery, 1803 Broadway, SF-sf

A.B., Stanford, 1901; M.D., Johns Hopkins, 1905. Assistant Resident Surgeon, Johns Hopkins Hospital, 1905–07; Assistant Professor of Pathology, Philippine Medical School, 1907–08; Assistant Professor of Surgery, College of Medicine and Surgery, University of the Philippines, 1908–12, Professor of Surgery and Chief of Department, 1912–16; Chief Surgeon, Philippine General Hospital, 1912–16; Lieutenant, M. C., U. S. N. R., 1917–19. At Stanford since 1916.

†Girard, Frank Robert, (123) Franklin 2441
Assistant Clinical Professor of Obstetrics and
Gynecology, Bohemian Club, SF-sf

M.D., California, 1903. Volunteer Assistant, Koenigliches Krankenhaus, Berlin, Germany, 1905–06; House Pathologist and House Surgeon, St. Luke's Hospital, New York, 1906-08; Assistant Resident Physician, Sloane Maternity Hospital, New York, 1908–09; Major, M. C., U. S. A., 1917–19; Chief, Surgical Service, Base Hospital No. 47, A. E. F., France. At Stanford since 1914.

†Goddard, Charles Baldwin, (1234) PA 522R
Assistant Registrar, 541 Seale

A.B., Stanford, 1904. Graduate Student, University of Wisconsin, Summer, 1910; Special Student, Washington University, St. Louis, Mo., 1915; Teacher of English, Yeatman High School, St. Louis, 1904–09, Assistant Principal, 1909–18; Teacher of English, Harris Teachers College, St. Louis, Summer Sessions, 1914, 1915; District Representative, War Camp Community Service (Inc.), 1918–21. At Stanford since 1921.

Golder, Frank Alfred, (1234)
Associate Professor of History, Stanford Union

A.B., Harvard, 1903, Ph.D., 1909. Instructor in History, University of Missouri, 1908–09, in History and Economics, Boston University, 1909, in History, University of Chicago, 1910; Assistant Professor of History, State College of Washington, 1910–14, Professor, 1915–20; Investigator in Russian Archives for Carnegie Institution, Washington (D.C.), 1914–15, for Carnegie Institution and American Geographical Society, 1917; Researches for U. S. Government, in connection with the War, 1917–18. At Stanford since 1923.

†Gottbrath, Norbert J., (123) Prospect 7416
Clinical Instructor in Medicine (Neurology), Belmont-b

B.S., St. Mary's Institute (Dayton, O.), 1898; M.D., Georgetown University, 1912. Clinical Assistant, Neurological Institute, New York City, 1914–15; Attending Physician and Instructor, Vanderbilt Clinic, 1914–16.

Graham, Harrington Bidwell, (123) Prospect 4400
Associate Clinical Professor of Surgery (Otology), Olympic Club, SF-sf

B.S., California, 1896, M.D., 1899. Superintendent of Waldeck Sanitarium, 1899; Assistant in Surgery, San Francisco Polyclinic, 1904; Assistant, Ear, Nose and Throat Clinic, Cooper Medical College, 1910–11; Lieutenant Commander, U. S. N. R. F., 1918–19. At Stanford since 1912.

†Gray, Henry David, (123) PA 1042R
Associate Professor of English, 22 Alvarado

Ph.B., Colgate, 1897; A.M., Columbia, 1898, Ph.D., 1904; Litt.D., Colgate, 1919. Assistant in German and French, Colgate Academy, 1896–97; University Scholar, Columbia University, 1898–1900; Instructor in Dramatic Literature, American Academy of Dramatic Arts, 1900–02; Instructor in English, University of Texas, 1902–05; Lecturer in English, Columbia University, Summer Session, 1905, University of Oregon, Summer Session, 1910, University of Illinois, Summer Session, 1912. At Stanford since 1905.

Green, Boynton Morris, (123)
Instructor in Mechanical Engineering, Stanford Union

A.B., Stanford, 1914, M.E., 1916. Student Engineer, H. Koffers Company, Pittsburgh, Pa., 1916; Draftsman and Construction Engineer, Federal Telegraph Company, 1917, 1919–21. At Stanford 1920, and since 1921.

†Green, Rufus Lot, (123) PA 1127J
Professor of Mathematics, 13 Salvatierra

B.S., Indiana, 1885, A.M., 1889. Instructor in Mathematics, Indiana University, 1885–86, Assistant Professor, 1886–88, Associate Professor, 1889–91, Professor of Pure Mathematics, 1891–93; Student, Johns Hopkins University, 1886–87. At Stanford since 1893.

†Haas, Sylvan Lewis, (123) Pacific 8713
Assistant Clinical Professor of Surgery (Orthopedics), 579 11th Ave., SF-sf

B.S., University of California, 1904; M.D., Johns Hopkins Medical School, 1908. At Stanford 1912–18, and since 1923.

HADDEN, ELIZABETH, (1234) PA 734W
Chief of Order Division, Library, 151 Kellogg-p
At Stanford since 1901.

†HALL, HOWARD JUDSON, (1234) LA 10J
Assistant Professor of English, University, Los Altos
B.S., Michigan State Agricultural College, 1890; A.B., Stanford, 1896; A.M., Harvard, 1900. Professor of English, and Librarian, University of Arizona, 1891–1904; Instructor, Army Educational Corps, A. E. F. University, Beaune, Cote d'Or, France, 1919. At Stanford since 1904.

†HANZLIK, PAUL JOHN, (123) San Mateo 1117
Professor of Pharmacology, 819 Prospect Row, SM-sm
Ph.C., Iowa, 1908; A.B., Illinois, 1908, A.M., 1911; M.D., Western Reserve, 1912. Demonstrator in Pharmacology, Western Reserve University, 1912–13, Instructor, 1913–15; Associate, 1915–17, Assistant Professor, 1917–20, Associate Professor, 1920–21. At Stanford since 1921.

†HARBAUGH, ROSS WALLACE, (123) Sunset 3970
Clinical Instructor in Surgery, 2443 15th Ave., SF-sf
A.B., Stanford, 1909, M.D., 1913. Resident Physician, St. Mary's Hospital, San Francisco, 1914–15; Assistant Medical Director, State Industrial Accident Commission, 1915–20; Assistant Medical Director, Western States Life Insurance Company, 1915–20. At Stanford since 1915.

[†HARCOURT, ROBERT HENRY, PA 1524W
Teaching Specialist in Forge Practice, 525 Lytton-p]
Graduate, Santa Barbara State Normal School, 1917. Apprentice and Blacksmith with Risdon Iron Works, San Francisco, 1898–1901, 1903–04; with Hammond Car and Elevator Company, San Francisco, 1901–02, 1904–05; with National Iron Works, San Francisco, 1902–03; Toolman with Abner Doble Steel Company, San Francisco, 1905–06, Foreman of Forge Shop, 1906–07; Instructor in Machine Shop Practice, Forge Practice, and Sheet Metal Work, State Normal School, Santa Barbara, Summer Session, 1919. At Stanford since 1907.

HARE, DOROTHY, (4) PA 964M
Acting Instructor in Physical Education
(Summer Quarter), 19 Salvatierra
A.B., Stanford, 1922.

†HARTMAN, GEORGE WASHINGTON, (123) Franklin 270
Lecturer on Genito-Urinary Surgery, 1005 Hyde, SF-sf
B.S., California, 1903; M.D., Johns Hopkins, 1908. Resident Physician, French Hospital, New York City, 1908, Flushing Hospital, 1909; Adjutant in Urology, German Hospital, San Francisco, 1909–18; Urologist, Franklin Hospital, San Francisco, 1918; Chief, Urological Clinic, San Francisco Polyclinic, 1918; Chief of Clinic, San Francisco Hospital, 1917–18. At Stanford since 1919.

HAVEN, MAUDE NOBLE (Mrs.), (123) Fillmore 1151
Clinical Instructor in Medicine (Neurology), 611 Baker, SF-sf
Ph.B., California, 1894; M.D., Cooper Medical College, 1900. Assistant, Woman's Clinic, Children's Hospital, San Francisco, 1901–04. At Stanford 1914–15, and since 1917.

HAYS, ALICE NEWMAN, (1234) PA 1052J
Reference Librarian, 3 Alvarado
A.B., Stanford, 1896; B.L.S., New York State Library School, 1903. Assistant, Home Education Department, New York State Library, 1901. At Stanford since 1901.

†HEATH, HAROLD, (1234)
Profesor of Zoology,
PA 1803J
1147 Ramona-p

A.B., Ohio Wesleyan, 1893; Ph.D., Pennsylvania, 1898; D.Sc., Ohio Wesleyan, 1919. Assistant in Biology, Ohio Wesleyan University, 1891–93; Professor of Biology, University of the Pacific, 1893–94; Harrison Fellow in Zoology, University of Pennsylvania, 1896–98. At Stanford since 1894.

†HENLINE, HENRY HARRISON, (123)
Assistant Professor of Electrical Engineering,
PA 2079W
1128 High

B.S., Illinois, 1914. Instructor in Science and Mathematics, Oktaha (Okla.) H. S., 1914–15; Graduate Chicago Central Station Institute, 1916; with Commonwealth Edison Co., 1916–17. At Stanford since 1917.

†HEWLETT, ALBION WALTER, (1234)
Professor of Medicine,
Fillmore 4477
2442 Union, SF-sf

B.S., University of California, 1895; M.D., Johns Hopkins, 1900. Assistant Professor of Theory and Practice of Medicine, Cooper Medical College, 1906–08; Professor of Internal Medicine, University of Michigan, 1908–16; Lieutenant-Commander U. S. N. R. F., 1917–19. At Stanford since 1916.

†HILL, HAROLD PHILLIPS, (123)
Clinical Professor of Medicine,
Prospect 4136
3625 Jackson, SF-sf

A.B., Stanford, 1898; M.D., California, 1901. Assistant in Physiology, Department of Medicine, University of California, 1889–1901, Instructor, 1901–03; Assistant Visiting Physician, St. Luke's Hospital, 1903–06, Visiting Physician, since 1906. At Stanford since 1912.

†HILL, HENRY GRANVILLE, (123)
Lecturer in Law,
SJ 1863
465 S. 15th, SJ-sj

A.B., Stanford, 1909, J.D., 1911.

†HOLLAND, BENJAMIN LEROY, (123)
Acting Associate Professor of Law,
PA 878W
838 Cowper

LL.B., Kansas, 1920, A.B., 1921; J.D., Yale, 1922. Research Assistant to Committee of Commonwealth Fund, on the Law of Evidence, 1922–23.

†HOLSEN, JAMES NOBLE, (1234)
Junior Associate, Food Research Institute,
PA 1260
520 University-p

A.M., Indiana, 1920. At Stanford since 1923.

†HOOVER, THEODORE JESSE, (123)
Professor of Mining and Metallurgy,
Stanford Union

A.B., Stanford, 1901. Assayer, Superintendent, Manager, Consulting Engineer, Managing Director, Director, and President of many mining companies in America, Europe, Asia, Africa, and Australia, 1901–19. At Stanford since 1919.

†HOSKINS, LEANDER MILLER, (123)
Professor of Applied Mathematics,
PA 75
1240 Waverley-p

B.C.E., and B.S., Wisconsin, 1883, M.S., 1885, C.E., 1887. Instructor in Engineering, University of Wisconsin, 1885–89, Assistant Professor of Mechanics, 1889–91, Professor of Theoretical and Applied Mechanics, 1891–92. At Stanford since 1892.

HUBER, ERNST, (3)
Acting Assistant Professor of Anatomy (Spring Quarter),
PA 1970J
Kingscote

Ph.D., University of Zürich, 1917. Associate in Anatomy, Johns Hopkins University.

HULME, EDWARD MASLIN, (124) PA 399M
Associate Professor of History, 638 Channing

A.B., Stanford, 1897; A.M., Cornell, 1902. University Scholar, Harvard University, 1900–01; Cornell Traveling Scholar at Collège de Sorbonne, 1902; Student in Europe, 1919–20; Intructor in Literature and History, High School, Portland (Ore.), 1897–1900; Assistant Professor of History, University of Idaho, 1902–05, Associate Professor, 1905–06, Professor, 1906–21, Dean of College of Letters and Science, 1917–21; Acting Professor of European History, Stanford University, Winter Quarter, 1918; Professor of European History, University of California, Summer Session, 1918; Professor of European History, University of Chicago, 1919. At Stanford since 1921.

HUNSBERGER, HARVEY SAMUEL, (12) Pacific 3261
Clinical Instructor in Medicine, 431 Spruce, SF-sf

A.B., Olivet, 1911; M.D., Rush Medical School, 1918. Interne, Southern Pacific Hospital, 1918–19; Resident, Mt. Zion Hospital, 1919–20; Lieutenant, U. S. N. R. F., since 1923. At Stanford since 1923.

†HUNT, ERNEST PAUL, (1234) PA 1750W
Instructor in Physical Education, 1420 Emerson-p

A.B., Indiana, 1913. Assistant in Physical Education, Indiana University, 1910–13; Director of Physical Education, Linton, Ind., 1913–14, Monte Vista, Colo., 1914–16; Supervisor of Physical Education, Waco (Texas) Public Schools, 1916–18, Berkeley High School, 1918–21. At Stanford since 1922.

†HYDE, JAMES MACDONALD, (123) PA 768W
Professor of Metallurgy, 260 Churchill

A.B., Stanford, 1901. Curator, California State Mining Bureau, 1901–02; Assistant Professor of Mining and Metallurgy, University of Oregon, 1903–06; Metallurgist, Guanajuato Consolidated Mining and Milling Co., Guanajuato, Mexico, 1906; Superintendent, Manhattan Ore Reduction and Refining Company, 1907; Field Agent, Mexican Syndicate, 1910; Consulting Engineer and Independent Operator, 1907–19. At Stanford since 1919.

†ICHIHASHI, YAMATO, (123) PA 1477W
Assistant Professor of Japanese History and Government, 7 Salvatierra

A.B., Stanford, 1907, A.M., 1908; Ph.D., Harvard, 1914. Assistant in Economics, Stanford University, 1908–10; Special Agent for U. S. Immigration Commission, 1908–10; Graduate Student, Harvard University, 1910–12, Henry Bromfield Roger Memorial Fellow in Sociology, 1911–12. At Stanford 1908–10, and since 1913.

†INMAN, THOMAS GEORGE, (123) Pacific 7036
Assistant Clinical Professor of Medicine (Neurology), 4547 California, SF-sf

Ph.G., California College of Pharmacy, 1892; M.D., Cooper Medical College, 1894. Assistant Demonstrator of Anatomy, Cooper Medical College, 1895–1900. Instructor in Applied Anatomy, 1900–11; Assistant Surgeon, St. Luke's Hospital, San Francisco, 1906–13, Visiting Neurologist, since 1915; Neurologist to Navy Base Hospital No. 2, 1917, 1918. At Stanford since 1915.

JENKINS, JOHN M., JR., (4)
Assistant Professor of Military Science and Tactics,

Student, Case School of Applied Sciences, 1912–16; Captain Field Artillery, U. S. A. At Stanford since July 5, 1924.

†JOHNSTON, OLIVER MARTIN, (123) PA 1040R
Professor of Romanic Languages, 4 Alvarado

A.B., Mississippi College, 1890, A.M., 1892; Ph.D., Johns Hopkins, 1896. Principal, Preparatory Department, Mississippi College, 1890–91, Professor of English, 1891–93; Fellow in Johns Hopkins University, 1895–96; Lecturer in French Philology, Bryn Mawr College, 1896–97; Secretary, Pacific Coast Philological Association, 1909–13, President, 1917; Professor of French, University of California, Summer Session, 1919. At Stanford since 1897.

†JONES, ELIOT, (123) PA 1031W
Professor of Economics, 31 Salvatierra

A.B., Vanderbilt, 1906; A.M., Harvard, 1908, Ph.D., 1913. Instructor in Economics, Harvard University, 1912–13, University of Pennsylvania, 1913–14; Associate Professor of Economics, Iowa State University, 1914–16; Professor of Economics, University of Texas, 1916–17; Federal Trade Commission, 1917; War Industries Board, 1918; Lecturer in Economics, University of California, Summer Session, 1920, 1921. At Stanford since 1917.

JONES, JAMES WALTER, (123) Sutter 567
Clinical Instructor in Surgery, 159 Powell, SF-sf

A.B., Stanford, 1913, M.D., 1921. Resident in Surgery, Lane Hospital, 1922–23. At Stanford since 1923.

KATZ, LOUISE WALDMAN, (1234) PA 1025
Cataloguer, Hoover War Library, 1 Salvatierra

B.S., Cornell, 1900. Graduate work in History, Cornell University, 1900–01; Student, New York State Library School, Albany, N. Y., 1901–03; Cataloguer, University of California, 1903–11; Special Cataloguer, University of Illinois, 1913–14; Catalogue Reviser, University of Minnesota, 1914–16; Cataloguer, Lane Medical Library, 1917–20; Catalogue Reviser and Classifier, University of Minnesota, 1920–21. At Stanford 1916–17, and since 1921.

†KAY, WILLARD E., (23) Prospect 7979
Clinical Instructor in Medicine, 2230 Steiner, SF-sf

A.B., Stanford, 1912, M.D., 1916. At Stanford, 1912–14, 1917–18, and since 1923.

KEEFER, CHAUNCEY TENNENT, (1234)
University Engineer, 1401 Emerson-p

A.B., Stanford, 1914.

KELLEY, KENNETH KEITH, (1234) PA 81J
Instructor in Applied Mathematics, 420 Hawthorne-p

A.B., Stanford, 1923. At Stanford since 1923.

†KELLEY, TRUMAN LEE, (1234) PA 1040J
Professor of Education, 5 Salvatierra

A.M., Illinois, 1911; Ph. D., Columbia, 1914. Consulting Psychologist, Culver Military Academy, 1913–14; Adjutant Professor of Educational Psychology, University of Texas, 1914–17; Assistant Professor of Education, Teachers' College, Columbia University, 1917–21; engaged in Psychological and Statistical Work for Surgeon General's Office, Adjutant General's Office, and for Committee on Education and Special Training, 1917–18; Chief Statistician, Elementary School Intelligence Examination Board of National Research Council, Summer, 1918. At Stanford since 1921.

†KELLY, THOMAS HENSHAW, (123) Fillmore 5518
Clinical Instructor in Medicine, 2936 Divisadero, SF-sf

M.D., University of Cincinnati, 1914. Interne, Cincinnati General Hospital, 1914–15; Instructor in Medicine, University of Cincinnati, 1915–19; Medical Director, St. Francis Hospital, San Francisco, 1920; First Lieutenant, Captain and Major, M. C., U. S. A., 1917–19. At Stanford since 1921.

†KENNEDY, ARTHUR GARFIELD, (23) PA 474R
Assistant Professor of English Philology, 1527 Waverley-p

A.B., Doane College, 1902; A.M., Nebraska, 1905; Ph.D., Stanford, 1914. Teacher, Chadron (Neb.) Academy, 1902–04, Norfolk (Neb.), H. S., 1905–08; Instructor in German and English, Spearfish (S. Dak.) State Normal School, 1908–12. At Stanford since 1914.

†KENNEY, WILLIAM, (123) Sunset 1310
Clinical Instructor in Medicine, 1379 6th Ave., SF-sf

M.D., California, 1905. Resident Physician, St. Luke's Branch Hospital, 1906–08; Resident Physician, Relief House, 1908–14. At Stanford, 1914–16, 1917–18, and since 1919.

†KERR, ANDREW, (1234) PA 1504J
Coach in Football, 835 Middlefield-p

Ph.B., Dickinson, 1900. Instructor in Coaching, University of Pittsburgh, 1914–22. At Stanford since 1922.

KERR, PAUL FRANCIS, (1)
Acting Instructor in Mineralogy, Stanford Union

B.S., Occidental, 1919; Ph.D., Stanford, 1923.

†KINDY, WARD B., (123) PA 1384W
Instructor in Electrical Engineering, 566 Everett-p

B.E.E., Ohio State, 1916. Electrical Inspector, U. S. Army Signal Corps, 1916–17; Aerial Gunnery Instructor, U. S. Naval Air Station, Key West, 1918; Instructor in Electrical Engineering, Iowa State College, 1920–21. At Stanford since 1921.

†KINGSLEY, JOHN STERLING, (4) PG 673
Lecturer in Biology (Summer Quarter), Pacific Grove-pg

A.B., Williams, 1875; D.Sc., Princeton, 1885. Professor of Biology, Indiana University, 1887–89, University of Nebraska, 1889–91, Tufts College, 1892–1913.

KINGSTON, JOHN JOSEPH, (1) Bay View 5670
Clinical Instructor in Medicine (Pediatrics), 805 Lake, SF-sf

M.D., California, 1921. Interne, University Hospital, 1920–21; Assistant in Pediatrics, University Hospital, 1921–22.

KINSLOW, FRANK ALOYSIUS, (123) Douglas 8800
Clinical Instructor in Medicine, Fairmont Hotel, SF-sf

M.D., Cooper Medical College, 1906. Interne, St. Joseph's Hospital, 1906–07; First Lieutenant, M. C., U. S. A., 1918–19. At Stanford since 1920.

†KIRKWOOD, MARION RICE, (123) PA 436M
Professor of Law, and Dean of the Law School, 1325 Bryant

A.B., Stanford, 1909, J.D., 1911. Student, Harvard Law School, 1909–10; Assistant Professor of Law, University of Oklahoma, 1911–12. At Stanford since 1912.

†KOFOID, CHARLES ATWOOD, (4)
Lecturer in Zoology (Summer Quarter), Berkeley-b

A.B., Oberlin, 1890; A.M., Harvard, 1892, Ph.D., 1894; hon. D.Sc., Oberlin, 1915, University of Wales, 1920. Instructor in Vertebrate Morphology, University of Michigan, 1894–95; Superintendent, Biological Station, University of Illinois, 1895–1900, Assistant Professor of Zoology, 1897 1900; Assistant Professor and Associate Professor of Histology and Embryology, University of California, 1900–10, Professor of Zoology, since 1910.

†KRAPP, GEORGE PHILIP, (23)
Acting Professor of English, 1143 Bryant-p

A.B., Wittenberg, 1894, A.M., 1897; Ph.D., Johns Hopkins, 1899. Instructor in English, Horace Mann School, New York, 1897–98, Teachers College and Columbia University, 1897–1907; Adjunct Professor of English, Columbia University, 1907–08; Professor of English, University of Cincinnati, 1908–10; Professor of English, Columbia University, since 1910.

†KROLL, FREDERICK WALTER (123) Prospect 2300
Clinical Instructor in Medicine, 1238 Washington, SF-sf

M.D., Cooper Medical College, 1912. Captain, M. R. C., U. S. A., 1916–18. At Stanford, 1913–14, and since 1920.

KYRK, HAZEL, (123)
Associate, Food Research Institute, Kingscote

Ph.B., Chicago, 1910, Ph.D., 1920. Instructor in Economics, Wellesley College, 1911–12, Oberlin College, 1914–19; Assistant Statistician, American Shipping Mission, London, 1918-19; Assistant Professor of Economics, Oberlin College, 1919–21. At Stanford since 1923.

LANDIS, MAUDE, (1234) West 6193
Superintendent of Nurses, and Professor of Nursing, Lane Hospital, SF-sf

A.B., Kansas, 1917; Graduate, Scarritt Hospital Training School, 1900. Graduate Study, Presbyterian Hospital, Chicago, 1905; Graduate Study, Department of Nursing and Public Health, Columbia University, 1917; Superintendent of Hospitals and Training Schools, 1901–17; Member Missouri State Board of Examination and Registration of Nurses, 1909–14; Educational Director, Lakeside Hospital Training School, Cleveland, O., 1917–18; Director, Connecticut Training School for Nurses, in affiliation with Yale University Medical School, 1918–21. At Stanford since 1921.

†LANGNECKER, HARRY LESLIE, (1234) PA 854
Associate Clinical Professor of Surgery (Orthopedics), 1711 Webster-p

A.B., Stanford, 1901; M.D., Johns Hopkins, 1906. Gynecological House Officer, Johns Hopkins Hospital, 1906–08; Orthopedic House Officer, Massachusetts General Hospital, 1908, Assistant in Orthopedic Surgery, Out-Patient Department, 1909–11; Assistant Resident Physician, 1911–13, Assistant to Orthopedic Surgeon-in-Chief, 1913–15; Lieutenant, M. C., U. S. N. R. F., 1917–19. At Stanford since 1915.

LAPE, FREDERICK, (123) PA 1680
Instructor in English, Stanford Union

A.B., Cornell, 1921. At Stanford since 1923.

LAYMAN, MARY H., (123) Fillmore 1953
Assistant Clinical Professor of Medicine (Pediatrics), 2582 Filbert, SF-sf

M.D., Ludwig-Maximilian University, Munich, 1913. Assistant, Medical and Pediatric Clinic, Munich, 1915–16; Assistant Visiting Physician, Pediatrics, San Francisco Hospital, 1917–19. At Stanford since 1917.

†Lee, Russell von Arsdale, (123) Franklin 6471
Clinical Instructor in Therapeutics, 965 Union, SF-sf
B.S., California, 1917; M.D., Stanford, 1920. At Stanford since 1922.

†Lemos, Pedro J., (123) PA 396J
Director of the Museum and Art Gallery, 460 Churchill
Assistant Professor of Etching and Lettering, University of California, 1910–11, Professor of Design and Applied Arts, 1911–12; Director of San Francisco Institute of Art, 1912–17; Exhibitor, Pennsylvania Academy of Fine Arts, Carnegie Institute, Pittsburgh, Brooklyn Museum of Fine Arts, Chicago Art Institute, New York Galleries, Panama-Pacific International Exposition; editor of the School Arts Magazine. At Stanford since 1917.

Lenox, Lionel Remond, (123)
Professor of Analytical Chemistry, Palo Alto
Ph.B., Columbia, 1888. Assistant Chemist, Bethlehem Steel Co., 1887; Instructor in Chemistry, Lehigh University, 1888–91; Chemist, Ordnance Department, U. S. N., Washington (D.C.), 1891–92; Chief Chemist, Conkling Iron Co., 1888–92; Chemist, Allan Cement Co., 1890–91. At Stanford since 1892.

[†Lesley, Everett Parker, PA 253
Professor of Mechanical Engineering, 18 Alvarado]
A.B., Stanford, 1897; M.M.E., Cornell, 1905. Apprentice and Foreman in Union Iron Works, San Francisco, 1897–1903; Assistant Inspector to Naval Constructor, 1903–04; Draftsman at U. S. Experimental Model Basin, Washington (D.C.), 1905–07. At Stanford since 1907.

†Levesque, René, (4)
Acting Professor of French (Summer Quarter) 4 Alvarado
Licencié ès Lettres, University of Paris. Instructor in French, University of Illinois, 1919–20, Amherst College, 1920–21; Professor of French, Laval University, Quebec, since 1921.

†Liggett, James Bennett, (123) PA 824J
Teaching Specialist in Foundry Practice, 760 Waverley-p
Apprentice and Foundry Molder, Falls Rivet and Machine Co., Cuyahoga Falls (Ohio), 1883–88, Webster Camp & Lane, Akron (Ohio), 1888–93, Bowler & Co., Cleveland (Ohio), 1893–98, Cleveland Steel Casting Co., 1898–99; Foreman, Born Steel Range Co., Cleveland (Ohio), 1899–1902, Westinghouse Electric Co., Cleveland (Ohio), 1902. At Stanford since 1902.

Logan, Laura R., (4) PA 1025
Acting Professor of Nursing (Summer Quarter), Madroño
A.B., Acadia University; B.S., Teachers' College, Columbia; R.N., Mt. Sinai School for Nurses, New York City. Sometime Director of School of Nursing and Health, General Hospital, Cincinnati; President Ohio State Association, Ohio State League of Nursing Education, National League of Nursing Education; Professor of Nursing and Health, University of Cincinnati, since 1914.

Lothrop, Margaret Mulford, (234) PA 1911
Instructor in Economics, 6 Cabrillo
A.B., Smith, 1905; A.M., Stanford, 1915. At Stanford since 1915.

†Lowry, Charles Doak, Jr., (234) PA 1825
Instructor in Organic Chemistry, 352 Hanover, College Terrace
B.S., Northwestern, 1917, M.S., 1920; A.M., Harvard, 1921. At Stanford since 1921.

†LUTTRELL, PETER HARRISON, (123) West 7619
Clinical Instructor in Medicine, 2617 Sacramento, SF-sf

M.D., Cooper Medical College, 1908. Assistant in Medical Clinic, Cooper Medical College, 1908–10, Instructor in Physical Diagnosis, 1910–11; Assistant in Medical Wards, Lane Hospital, 1911–14. At Stanford, 1916–17, 1918–20, and since 1921.

†LUTZ, HARLEY LEIST, (123) PA 1345J
Professor of Economics, 1400 Webster

A.B., Oberlin, 1907; A.M., Harvard, 1908, Ph.D., 1914. Professor of Economics, Oberlin College, 1909–23, Head of Department, 1914–23; Economic Adviser, Joint Taxation Commission, Ohio General Assembly, 1919. At Stanford since 1923.

LUTZ, RALPH HASWELL, (123)
Associate Professor of History, Stanford Union

A.B., Stanford, 1906; LL.B., Washington, 1907; Ph.D., Heidelberg, 1910. Student, Universities of California (summer, 1906), Bonn and Heidelberg (1907–10), Berlin (summer, 1913); Instructor in History, University of Washington, 1911–16, Assistant Professor, 1916–20; Lecturer in European History, Stanford University, 1915–16. At Stanford, 1915–16, and since 1920.

MCCRACKEN, MARY ISABEL, (123) PA 1127W
Assistant Professor of Entomology, 1 Arguello

A.B., Stanford, 1904, A.M., 1905, Ph.D., 1908. Student, Paris and London, 1912–13. At Stanford since 1904.

†MCDOWELL, JOHN EZRA, (1234) LA 56
Academic Secretary, and Alumni Secretary, Los Altos

A.B., Stanford, 1900. At Stanford since 1900.

†MCFARLAND, FRANK MACE, (12) PA 480
Professor of Histology, 2 Cabrillo

Ph.B., De Pauw, 1889; A.M., Stanford, 1893; Ph.D., Würzburg, 1896. Professor of Biology and Geology, Olivet College, 1889–92; Student, Würzburg, Zürich, and Naples, 1894–96. At Stanford since 1892.

MCKEE, ALBERT BROWN, (1234) Redwood 1704F4
Clinical Professor of Surgery
(Ophthalmology), Woodside-RFD, rc

Ph.B., University of the Pacific, 1883, Ph.M., 1886; M.D., Cooper Medical College, 1886. Instructor and Acting Head of the Eye, Ear, Nose, and Throat Division, University of California Medical Department, 1902–08; Associate Professor of Ophthalmology, Cooper Medical College, 1908–12. At Stanford since 1912.

†MCLAUGHLIN, ROY PARMELEE, (123) Douglas 5451
Lecturer in Oil Technology and Petroleum
Engineering, 203 Wright-Callender Bldg., Los Angeles

A.B., Stanford, 1902, Engineer, 1915. Assistant Engineer, North Star Mines Co., Grass Valley (Cal.), 1904; Engineer, Consolidated Mining Co., Bodie, 1905–06, Mono Lake Railway & Lumber Co., 1907; Geologist, Associated Oil Co., San Francisco, 1908–15; Chief of Petroleum Department, California State Mining Bureau, 1913–15; California State Oil and Gas Supervisor, 1915–20; Consulting Petroleum Engineer and Geologist, 1921–22. At Stanford since 1922.

†MCMURPHY, JAMES IRA WILSON, (1234)
Assistant Professor of Botany, 144 Melville

A.B., Stanford, 1908, A.M., 1909. At Stanford since 1908.

†McNaught, Harvard Young, (123) Bayview 584
Associate Clinical Professor of Surgery (Otology, Rhinology, Laryngology), 755 14th Ave., SF-sf

M.D.C.M., Trinity University, 1897. Fellow by Examination, Trinity Medical College, 1897; Assistant, Ear, Nose, and Throat Clinic, Cooper Medical College, 1911–12. At Stanford since 1913.

†MacQuarrie, Thomas William, (4) PA 695R
Acting Instructor in Education (Summer Quarter), College Terrace

A.B., Stanford, 1922, A.M., 1923.

†Maloney, Henry Wilfred, (123) PA 696
Associate Director of Encina Gymnasium, 1102 Guinda

Military Gymnastic School, Dublin, Ireland, 1899; Physical Instructor, British Army, 1899–1900; British War Service, South Africa, 1901–02; Gymnastic School, Pasadena, 1904–08; Captain and Athletic Officer, A. E. F., 1917–18; Track Coach and Trainer, U. S. Track Team, Inter-Allied Games, Paris, France, 1919; Trainer and Rugby Commissioner, Rugby Teams, Olympic Games, Antwerp, Belgium, 1920; President, California Rugby Union, since 1920; Western Representative, National (Soccer) Football Association, 1922. At Stanford since 1908.

†Manning, William Albert, (134) PA 689R
Professor of Applied Mathematics, 604 Tennyson-p

A.B., Willamette University, 1900; A.M., Stanford, 1902, Ph.D., 1904. Student, University of Paris, 1904–05; Acting Assistant Professor of Mathematics, University of Illinois, 1909–10. At Stanford since 1900.

†Manwaring, Wilfred Hamilton, (1234) PA 1509
Professor of Bacteriology and Experimental Pathology, 364 Kingsley-p

B.S., Michigan, 1895; M.D., Johns Hopkins, 1904. Fellow and Assistant in Pathology, University of Chicago, 1904–05; Associate Professor of Pathology, Indiana University, 1905–07; Traveling Fellow, Rockefeller Institute, 1907–08, v. Wassermann's Laboratory, Berlin, 1907–08, Ehrlich's Laboratory, Frankfort-on-Main, 1908–09, Lister Institute of Preventive Medicine, London, 1909–10; Assistant in Pathology, Rockefeller Institute, 1910–13; Lecturer in Functional Pathology, Washington University Medical School, 1920–21. At Stanford since 1913.

Martin, Elizabeth, (3) PA 1127J
Acting Medical Adviser of Women, 13 Salvatierra

†Martin, Ernest Gale, (123) PA 1985
Professor of Physiology, 1525 Waverley

Ph.B., Hamline, 1897; Ph.D., Johns Hopkins, 1904. Assistant in Biology, Hamline University, 1896–97; Fellow in Physiology, Johns Hopkins University, 1902–03, Assistant, 1903–04; Instructor in Anatomy and Physiology, Purdue University, 1904–06; Instructor in Physiology, Harvard University, 1906–10, Assistant Professor, 1910–16; Instructor in Physiology, Simmons College, 1907–08; Lecturer in Physiology, Sargent School for Physical Education, 1906–14; Assistant Professor of Physiology, Radcliffe College, 1914–16. At Stanford since 1916.

†Martin, Ernest Whitney, (234) PA 132J
Associate Professor of Classical Literature, 525 Lincoln

A.B., Chicago, 1900; A.M., Stanford, 1902, Ph.D., 1910. Instructor in Latin and Greek, Private School, Clarinda (Ia.), 1895–96, Principal of High School,

1896–98; Student, University of Berlin and American School of Classical Studies, Rome, 1900–01; Acting Professor of Latin and Greek, University of Nevada, 1908–09, Professor of Greek, 1909–10. At Stanford since 1901.

†MARTIN, PERCY ALVIN, (123) PA 1923J
Professor of European History, 29 Salvatierra

A.B., Stanford, 1902, A.M., 1903; A.M., Harvard, 1907, Ph.D., 1912. Student, University of Paris, 1903–04, Universities of Berlin and Leipzig, 1907–08; Fellow, Harvard University, 1908; Professor of History and French, Whittier College, 1904–05; Lecturer in Latin-American History, Harvard University, 1915; Lecturer in South American History and Institutions, University of Washington, Summer Session, 1916. At Stanford since 1908.

†MARX, GUIDO HUGO, (123) PA 715
Professor of Machine Design, 356 Lincoln

M.E., Cornell, 1893. With Gleason Tool Co., Rochester (N.Y.), 1893–94; with Bement, Miles & Co., Philadelphia, 1894–95. At Stanford since 1895.

†MATTHEWS, JAMES THOMAS, (4)
Acting Assistant Professor of Mathematics
(Summer Quarter), 329 Hawthorne

A.B., Willamette, 1892, A.M., 1893. Professor of Mathematics, Willamette University, since 1903.

MAYTIN, JOSEPH GREGORY, (123)
Instructor in Citizenship, 223 Stanford Union

A.B., California, 1921, A.M., 1922. Lecturer in Russian Economic Problems, Extension Division, University of California, 1921–22; Lecturer in Political Science, Mills College, 1922–23; Lecturer in Political Science, University of California, Southern Branch, Summer Session, 1923. At Stanford since 1923.

†MEARS, ELIOT GRINNELL, (12) PA 1500
Lecturer in Economics, 23 Salvatierra

A.B., Harvard, 1910, M.B.A., 1912. Secretary and Instructor, Harvard Graduate School of Business Administration, 1912–16; Chief, Foreign Service Division, and later American Trade Commissioner in the Near East, United States Bureau of Foreign and Domestic Commerce, since 1916; Commercial Attaché to American High Commission in Turkey, 1919–20; Economist, Harbord Military Mission to Armenia and Transcaucasia, 1919; Permanent Secretary, Pan-Pacific Commercial Conference, Hawaii, 1922. At Stanford since 1920.

MEHRTENS, HENRY GEORGE, (123) West 3165
Associate Professor of Medicine
(Neurology), Stanford Hospital, SF-sf

B.S., California, 1911; M.D., Stanford, 1913. Senior House Officer, Lane Hospital, 1914–15, House Physician, since 1915. At Stanford since 1915.

MENTZER, MARY JONES (Mrs.), (123) Sutter 3560
Clinical Instructor in Medicine, Colonial Hotel, SF-sf

M.D., Woman's Medical College, Pennsylvania, 1905. Resident Physician, Sheltering Arms, Philadelphia, 1906–08, San Francisco Polyclinic, 1916–18, 1919–20; on Active Staff, Arequipa Sanitarium, 1916. At Stanford since 1921.

MERRILL, MAUD AMANDA, (234) PA 515W
Instructor in Psychology, 418 Florence

A.B., Oberlin, 1911; A.M., Stanford, 1920, Ph.D., 1924. At Stanford since 1920.

†Meyer, Arthur William, (123) PA 1225
Professor of Anatomy, 121 Waverley-p

B.S., Wisconsin, 1898; M.D., Johns Hopkins, 1905. Assistant and Instructor in Anatomy, Johns Hopkins University, 1905–07; Assistant Professor of Anatomy, University of Minnesota, 1907–08; Professor of Anatomy, Northwestern University, 1908–09; Research Associate, Carnegie Institution, 1917–18. At Stanford since 1909.

†Miles, Walter Richard, (234) PA 1731W
Professor of Experimental Psychology, 10 Cabrillo

A.B., Earlham, 1908; A.M., Iowa, 1910, Ph.D., 1913. Instructor in Psychology and Education, Penn College, 1908–10; Scholar in Education, University of Iowa, 1909–10, Fellow and Assistant in Psychology, 1910–12; Associate Professor of Psychology, Wesleyan University, 1913–14; Psychologist at Nutrition Laboratory of Carnegie Institution of Washington, Boston, Mass., 1914–22. At Stanford since 1923.

†Mills, Louis David, (123) PA 1788
Lecturer in Metallurgy of Gold and Silver, 215 Coleridge-p

A.B., Stanford, 1901.

Mirrielees, Edith Ronald, (234) PA 1746J
Assistant Professor of English, 4 Lasuen

A.B., Stanford, 1907. At Stanford since 1909.

†Mitchell, John Pearce, (1234) PA 722
Professor of Chemistry, 235 Embarcadero

A.B., Stanford, 1903, A.M., 1904, Ph.D., 1909. Student, University of Leipzig, 1904–05. At Stanford, 1903–04, and since 1905.

†Moore, Chester Biven, (123) Fillmore 922
Clinical Instructor in Obstetrics and Gynecology, 3469 Jackson, SF-sf

B.S., California, 1906, M.D., 1910. Interne, University of California Hospital, 1910–11; House Officer, Children's Hospital, Boston, 1911–12. At Stanford since 1913.

†Moreno, Halcott Cadwalader, (123) PA 526J
Professor of Applied Mathematics, 28 Alvarado

A.B., University of Georgia, 1893, A.M., 1894, B.L., 1896; Ph.D., Clark, 1900. Tutor in Mathematics, University of Georgia, 1893 97; Scholar and Fellow in Mathematics, Clark University, 1897–1900, Assistant in Mathematics, 1900–01. At Stanford since 1901.

Morgan, Theodore Harding, (123) PA 970
Instructor in Electrical Engineering, Stanford Union

A.B., Stanford, 1920.

†Morse, Harry Wheeler, (123) PA 336M
Lecturer in the Hydrometallurgy of Copper, Lead, and Zinc, 504 Hamilton-p

A.B., Stanford, 1897; Ph.D., Leipzig, 1902. Instructor and Assistant Professor of Physics, Harvard University, 1902–12; Lecturer in Chemistry, University of California, 1912–13; Consulting Chemist and Metallurgist since 1913.

†Moser, Charles, (123) PA 592J
Associate Professor of Civil Engineering, 651 Homer

C.E., Ohio Northern University, 1902; A.B., Stanford, 1908. At Stanford since 1908.

MOSHER, CLELIA DUEL, (12) PA 32
Associate Professor of Personal Hygiene, and Medical Adviser of Women, 179 Lincoln-p

A.B., Stanford, 1893, A.M., 1894; M.D., Johns Hopkins, 1900. Assistant in Hygiene and Physical Training, Stanford University, 1893–94, Instructor, 1894–96; Externe in the Johns Hopkins Hospital Dispensary, and Gynecological Assistant in Dr. Howard A. Kelly's Sanatorium, Baltimore (Md.), 1900–01; Physician, Palo Alto, 1901–10. At Stanford, 1893–96, and since 1910.

†MURRAY, AUGUSTUS TABER, (1234) PA 2065
Professor of Classical Literature, 1019 Bryant

A.B., Haverford, 1885; Ph.D., Johns Hopkins, 1890. Fellow in Johns Hopkins University, 1887–88; Professor of Greek, Earlham College, 1888–90; Student, Universities of Leipzig and Berlin, 1890–91; Professor of Greek, Colorado College, 1891–92. At Stanford since 1892.

MURRAY, MARGARET, (1234) PA 1219J
Secretary to the Comptroller, 1011 Fulton

NAGEL, LAURA INGEBORG, (1234) LA 126J
Recorder, Registrar's Office, Los Altos-la

A.B., Stanford, 1904, A.M., 1905. At Stanford, 1908–09, and since 1919.

†NEWELL, ROBERT REID, (1234) Bayview 5232
Assistant Professor of Medicine (Radiology), 2344 Anza, SF-sf

M.D., California, 1916. Assistant in Medicine, University of California, 1917. At Stanford since 1920.

†NICHOLS, WALTER HAMMOND, (4) PA 233
Acting Instructor in Education (Summer Quarter), 1345 Webster-p

B.S., Michigan, 1891; A.M., Teachers College, Columbia, 1901. Special work in Education, History and Economics, Universities of Michigan, Chicago, and Colorado, 1891–98; Instructor in History, University of Colorado, 1897–98; Secretary of Teachers' College, Columbia University, 1898–1900; Professor of History and Economics, and High School Inspector, University of Colorado, 1901–03; Teacher in Pasadena High School, 1913–15; Superintendent of Schools, Palo Alto, 1915–19, Principal of High School, since 1915.

NYE, HELENA MAY, (123) PA 670J
Instructor in German, 281 Addison-p

A.B., Stanford, 1905, A.M., 1908. At Stanford since 1921.

†O'CONNOR, RODERIC, (12) Diablo 27
Clinical Instructor in Surgery (Ophthalmology), Mt. Diablo Country Club, SF-sf

M.D., Pennsylvania, 1900. Interne, St. Mary's Hospital, Philadelphia; First Lieutenant, Medical Corps, U. S. A., 1901; Honor Graduate, Army Medical School, 1902; Major, Medical Corps., U. S. A., 1910–14. At Stanford since 1918.

†OLIVER, HARRY REEVES, (123) Fillmore 6141
Assistant Clinical Professor of Medicine (Serology), 2751 Union, SF-sf

M.D., Cooper Medical College, 1898. Assistant in Pathology, Cooper Medical College, 1898–1904, Instructor, 1904–06, Assistant Professor, 1906–11, Associate Professor of Clinical Pathology, 1911–12, Serologist, 1912. At Stanford since 1909.

†Oliver, Jean Redman, (123) Franklin 3191
Associate Professor of Pathology, 1246 Lombard, SF-sf

A.B., Stanford, 1911, M.D., 1914. Assistant in Pathology and Bacteriology, Rockefeller Institute for Medical Research, 1916–18, Associate, 1919; First Lieutenant and Major, M. C., U. S. A., Camp Meade (Md.); Group Laboratory Officer, Justice Hospital Group, Toul, France; Detailed on Medical History of the War, Central Medical Department Laboratory, Dijon, France, and Surgeon General's Office, Washington (D.C.), 1917–19. At Stanford, 1914-16, and since 1919.

†O'Neill, Arthur Aloysius, (123) Park 6916
Assistant Clinical Professor of Medicine
(Pediatrics), 100 Dolores, SF-sf

M.D., Cooper Medical College, 1891. Assistant Surgeon, Cooper Medical College Clinic, 1893; Assistant in Diseases of the Skin, San Francisco Polyclinic, since 1902; in charge of Isolation and Plague Hospitals, 1907–10, of Isolation Hospital, 1912. At Stanford since 1913.

Ophüls, Louise, (1234) Fillmore 5747
Librarian, Lane Medical Library, 2186 California, SF-sf

At Stanford since 1910.

†Ophüls, William, (1234) Walnut 1741
Dean of the Medical School, and Professor of
Pathology, 2398 Sacramento, SF-sf

M.D., University of Göttingen, 1895. Assistant at the Pathologic Institute at Göttingen, 1896–97; Professor of Pathology and Bacteriology, University of Missouri, 1897–98; Professor of Pathology and Bacteriology, Cooper Medical College, 1898–1912; Pathologist, Lane Hospital, since 1898; Instructor in Pathology, Training School for Military Officers, U. S. A., 1918. At Stanford since 1909.

†Osborne, George Edward, (134) MP 1243R
Professor of Law, 326 Churchill

A.B., California, 1916; LL.B., Harvard, 1919, S.J.D., 1920. Assistant Professor of Law, West Virginia University, 1920–21; Acting Assistant Professor of Law, Stanford University, Summer Quarter, 1921; Assistant Professor of Law, University of Minnesota, 1921–23; Acting Professor of Law, Columbia University, Summer Session, 1923. At Stanford since 1923.

†Owens, William Brownlee, (123) PA 1170W
Professor of Law, 19 Alvarado

LL.B., Stanford, 1915. At Stanford, 1915–16, and since 1920.

†Palmateer, Theron J., (123) PA 1679J
Teaching Specialist in Machine Shop Practice, 1028 Cowper-p

Apprentice with Sibley & Ware, South Bend (Ind.); Journeyman Machinist, 1896–1905, with R. Hoe & Co., New York, Columbus Machine Works, Columbus (Ohio), Elems Engineering Works, Chicago, Western Gas Engine Works, Mishawaka (Ind.), Webster Iron Works, Bakersfield (Cal.), R. S. Hunkins, San Jose (Cal.). At Stanford since 1904.

Palmer, Caroline Bell, (123) West 6523
Associate Clinical Professor of Surgery
(Anæsthetics), 2401 Sacramento, SF-sf

M.D., Cooper Medical College, 1906. Chief Anæsthetist, Lane Hospital, since 1909. At Stanford since 1917.

†PARISH, SAMUEL BONSALL, (123)
Lecturer on California Botany, 1624 Scenic Ave., Berkeley-b
Honorary Curator of the Herbarium, University of California.

†PARK, CHARLES V., (1234) PA 1188W
Assistant Librarian, 1080 Emerson-p
A.B., Stanford, 1909. Certificate, New York Public Library, Library School, 1915. At Stanford since 1909.

†PARKS, GEORGE SUTTON, (123) PA 520J
Instructor in Chemistry, 151 Waverley
B.S., Washington, 1915, M.S., 1916; Ph.D., California, 1919. Instructor in Chemistry, California Institute of Technology, 1919–20. At Stanford since 1920.

†PEIRCE, GEORGE JAMES, (23) PA 1743J
Professor of Botany and Plant Physiology, 281 Embarcadero
S.B., Harvard, 1890; A.M., and Ph.D., Leipzig, 1894. Assistant in Botany, Harvard University and Radcliffe College, 1890–92; Parker Fellow in Harvard University, studying in Bonn, Leipzig, and Munich, 1892–94; Assistant Professor of Botany, Indiana University, 1895–97; Acting Professor of Botany, University of Wisconsin, second semester, 1910–11. At Stanford since 1897.

PERKINS, ROLLIN MORRIS, (4)
Acting Professor of Law (Summer Quarter), Iowa City, Ia.
A.B., Kansas, 1910; J.D., Stanford, 1912; S.J.D., Harvard, 1916. Engaged in practice, 1912–15; Assistant Professor of Law, University of Iowa, 1915–19, Associate Professor, 1919–20, Professor, since 1920.

PERRY, FRANCES, (1234)
Secretary to Dr. C. L. Alsberg, Food Research Institute, 528 Lincoln
A.B., Radcliffe, 1911. At Stanford since 1919.

PETTIGREW, MOSES W., (4) PA 812W
Assistant Professor of Military Science and Tactics, 1060 High-p
Student, Utah State School of Mines, 1914–17. At Stanford since July 1, 1924.

PETTIT, ALBERT VICTOR, (1234) Fillmore 7232
Instructor in Obstetrics and Gynecology, 1471 Francisco, SF-sf
A.B., Stanford, 1915, M.D., 1919. At Stanford since 1920.

†PIERSON, PHILIP HALE, (1234) Pacific 7907
Assistant Clinical Professor of Medicine (Tuberculosis), 734 12th Ave., SF-sf
A.B., Yale, 1908; M.D., Harvard, 1913. House Officer, Massachusetts General Hospital, 1914–15. At Stanford since 1916.

†PRICE, GEORGE CLINTON, (123) PA 1053
Professor of Zoology, 5 Alvarado
B.S., De Pauw, 1890; Ph.D., Stanford, 1897. Student in Biology, Johns Hopkins University, 1890–92; University of Munich, 1895–96. At Stanford since 1892.

[†PROCTOR, WILLIAM MARTIN, PA 1040J
Associate Professor of Education, 5 Salvatierra]
A.B., Whitman, 1901; A.M., Stanford, 1916, Ph.D., 1919. Teacher of History and Civics, Cheney (Wash.) State Normal School, 1909–10; Professor of

Education, Pacific University, Forest Grove, Oregon, 1911–15, Dean of Faculty, 1914–15; Instructor in Education, Harvard Summer Session, 1922. At Stanford since 1916.

PUTNAM, DOROTHY, (1234) PA 1279W
Secretary, School of Education, 625 Guinda

A.B., Stanford, 1916. Assistant in History, Stanford University, 1916–17. At Stanford since 1916.

[†RAKESTRAW, NORRIS WATSON, PA 1141J
Instructor in Chemistry, 677 Melville-p]

A.B., Stanford, 1916, A.M., 1917, Ph.D., 1921. At Stanford since 1919.

†READ, JAY MARION, (123) Walnut 1416
Clinical Instructor in Medicine, 1735 Grove, SF-sf

B.S., California, 1912, M.S., 1913; M.D., Stanford, 1915. Assistant, Medical Clinic, Stanford Service, San Francisco Hospital, since 1916; Captain, M. R. C., U. S. A., 1917–19.

†REED, ALFRED CUMMINGS, (123) Bayview 841
Associate Clinical Professor of Medicine, 751 14th Ave, SF-sf

A.B., Pomona, 1906; M.D., Bellevue Medical College, 1910. Instructor in Pharmacology, Bellevue Medical College, 1910–11; Assistant Surgeon, U. S. Public Health Service, 1911–13; Attending Physician, Yale Hospital, Changsha, China, 1913–15; Lieutenant, M. C., U. S. N. R. F., 1917–19; Chief of Medical Service, Mare Island Naval Hospital, 1918–19; Editor *California State Journal of Medicine*, since 1917. At Stanford since 1916.

REMELE, MIRIAM FRANCES, (1234) PA 711J
Executive Secretary, Registrar's Office, 367 Addison-p

At Stanford since 1920.

†RENDTORFF, KARL GUSTAV, (123) PA 515W
Professor of German, 30 Alvarado

A.M., Stanford, 1894, Ph.D., 1896. Student, University of Giessen, 1884–85, University of Kiel, 1885–91. At Stanford since 1894.

†REYNOLDS, LEON BENEDICT, (123) PA 1086
Professor of Hydraulic and Sanitary Engineering, 1019 Forest Court

A.B., Hillsdale, 1906; A.B., Stanford, 1909. Student, Cornell University, 1911–12; Assistant Engineer, Burns & McDonnell, Kansas City, Mo., 1909–11, 1912–19; Member of Firm, Burns & McDonnell Engineering Co., Kansas City, Mo., 1920–23. At Stanford since 1923.

†REYNOLDS, LLOYD ROBINSON, (23) Walnut 619
Clinical Instructor in Surgery (Genito-Urinary), 2762 Filbert, SF-sf

A.B., Stanford, 1915, M.D., 1920. At Stanford since 1921.

†RIGDON, RUFUS LEE, (123) Fillmore 2285
Clinical Professor of Surgery (Genito-Urinary), 1617 Broderick, SF-sf

M.D., Cooper Medical College, 1887. Assistant and Instructor in Genito-Urinary Clinic, Cooper Medical College, 1888–98, Associate Professor of Genito-Urinary Surgery and Chief of Genito-Urinary Clinic, 1898–1908, Professor of Genito-Urinary Surgery, 1908–12. At Stanford since 1912.

†RITTER, ARTHUR JOHN, (123) — San Anselmo 8
Lecturer on Mental Deficiency, — Ross-r

Graduate Teachers' College, Zürich (Switzerland), 1897; Research Assistant, Racial Studies, Johannesburg (South Africa), 1898–1901; Student, Paris, 1902–03; Instructor des Enfants Arrières, Paris, 1904–05; Private Case Work with Feeble-Minded Children, 1906–11; Home School for Nervous and Backward Children, 1912; Lecturer, Department of Criminology, University of California, Summer Session, 1920. At Stanford since 1916.

†RIXFORD, EMMETT, (123) — Franklin 5100
Professor of Surgery, — 1795 California, SF-sf

B.S., California, 1887; M.D., Cooper Medical College, 1891. Adjunct Professor of Surgery, Cooper Medical College, 1893–98, Professor, 1898–1912; Visiting Surgeon, Lane Hospital, 1895, City and County Hospital, San Francisco, since 1899; Instructor in Surgery, Training School for Military Officers, U. S. A., 1918. At Stanford since 1909.

†ROBINSON, EDGAR EUGENE, (124) — PA 1511
Professor of American History, — 27 Salvatierra

A.B., Wisconsin, 1908, A.M., 1910. Assistant in History, University of Wisconsin, 1908–09, Fellow in American History, 1909–10; Assistant Professor of History, Carleton College, 1910–11; Instructor in History, University of Minnesota, Summer Session, 1912, Resident Lecturer, 1915–16; Assistant Professor of History, University of Michigan, Summer Session, 1916; Assistant Educational Director, S. A. T. C., 1918; Visiting Professor of American History, Yale University, 1919–20. At Stanford since 1911.

†ROGERS, AUSTIN FLINT, (23) — PA 1321
Professor of Mineralogy, — 15 Salvatierra

A.B., Kansas, 1899, A.M., 1900; Ph.D., Columbia, 1902. Assistant in Mineralogy, University of Kansas, 1898–1900; Assistant Geologist, University Geological Survey of Kansas, 1898–1900, 1903; Fellow in Mineralogy, Columbia University, 1900–02, Tutor in Mineralogy, 1902–05. At Stanford since 1905.

†ROGERS, FREDERICK JOHN, (123) — SJ 3438J
Associate Professor of Physics, — 550 S. 6th, San Jose

M.S., Cornell, 1891. Instructor in Physics, Cornell University, 1892–1900. At Stanford since 1900.

†ROSS, PERLEY ASON, (1234) — PA 689J
Assistant Professor of Physics, — 1830 Cowper-p

A.B., Stanford, 1908, A.M., 1910, Ph.D., 1911. At Stanford since 1908.

†ROTH, ALMON EDWARD, (1234) — PA 900L1
Comptroller, — Santa Teresa

A.B., Stanford, 1909, J.D., 1912.

RUSSELL, FRANCES THERESA (Mrs.), (123) — PA 1746W
Assistant Professor of English, — 4 Lasuen

Ph.B., Iowa, 1895; Ph.D., Columbia, 1920. Teacher in Denison (Ia.) Normal School, 1895–96; Principal, Villisca (Ia.) High School, 1896–98; Graduate Student at Radcliffe College, 1898–99; Teacher in Anamosa (Ia.) High School, 1899–1900. At Stanford since 1905.

†RYAN, HARRIS JOSEPH, (123) — PA 1075
Professor of Electrical Engineering, — 525 Embarcadero

M.E., Cornell, 1887. With Western Engineering Co., Lincoln (Neb.), 1887–88; Instructor in Physics, Cornell University, 1888–89, Assistant Professor of Elec-

trical Engineering, 1889–92, Associate Professor, 1892–95, Professor, 1895–1905; Judge, Board of Awards, World's Fair, Chicago, 1893; U. S. Government Delegate, International Electrical Congress, St. Louis Exposition, 1904. At Stanford since 1905.

†RYFKOGEL, HENRY ANTHON LEWIS, (123) Bayview 6197
Lecturer on Surgery (S. F. Hospital), 756 18th Ave., SF-sf

M.D., California, 1894. Instructor in Anatomy, University of California, 1894–95, Instructor in Clinical Pathology, Medical Department, 1895–1900, Instructor in Bacteriology, 1900–06, in Surgical Pathology, 1906–07; Surgeon, San Francisco Polyclinic, and Visiting Surgeon, St. Francis Hospital, since 1904.

†RYNEARSON, EDWARD, (4)
Acting Professor of Education
(Summer Quarter), 526 University

A.B., Ohio Wesleyan, 1893, A.M., 1896, Ped.D., 1919. Teacher in Steele High School, Dayton (O.), 1893–95; Graduate Student, University of Chicago, 1895–96; Teacher of Botany and Zoology, Central High School, Pittsburgh (Pa.), 1896–98, Principal, Fifth Avenue School, since 1898, Director of Department of Vocational Guidance, since 1917; Instructor in Education, Summer Sessions, Colorado State Teachers' College, 1920, Boston University, 1922, Teachers' College, Columbia University, 1923.

SAMPSON, JOSEPH ABRAHAM, (123) Sutter 600
Clinical Instructor in Medicine (Pediatrics), Hotel Fielding, SF-sf

B.S., California, 1910; M.D., Stanford, 1921. Interne, Lane Hospital, and House Officer, San Francisco Hospital, 1920–21. At Stanford since 1921.

SANDERS, NATHANIEL, (1234)
Instructor in Economics, 1 Lasuen

A.B., California, 1898. At Stanford since 1918.

SANFORD, LAURA MAUD, (1234) Pacific 6188
Secretary to Dean of Medical School, 478 10th Ave., SF-sf

A.B., Stanford, 1917.

SANTES, MARIE, (1234) PA 1025
Cataloguer, Hoover War Library, 1 Salvatierra

A.B., Carleton, 1911. High School Teacher, 1911–13; Student, New York State Library School, 1916–18; Temporary Assistant, Newark (N.J.) Free Public Library, summer 1917; Cataloguer, University of Minnesota Library, 1918–23. At Stanford since 1923.

†SCHALLER, WALTER FRANK, (123) Bayview 150
Clinical Professor of Medicine (Neurology), 164 Sea Cliff, SF-sf

M.D., Cooper Medical College, 1902. Assistant in Pathology, Cooper Medical College, 1905–06; Assistant Surgeon, U. S. N., 1906–08; Student at Karlsruhe, Vienna, and Paris, 1909–11; P. A. Surgeon, U. S. N. R. F., June–December, 1917, and since October, 1918. At Stanford since 1911.

†SCHAUPP, KARL LUDWIG, (123) Fillmore 921
Clinical Instructor in Obstetrics and
Gynecology, 45 Walnut, SF-sf

A.B., Stanford, 1913, M.D., 1916. Senior Interne, Obstetrics and Gynecology, Lane Hospital, 1916–17; Visiting Obstetrician, San Francisco Hospital, since 1918.

†Schultz, Edwin William, (123) PA 1210
Associate Professor of Bacteriology, 552 Kellogg

B.S., Winona College, 1913; A.B., Michigan, 1914; M.D., Johns Hopkins, 1917. Special Student in Protozoology, School of Hygiene and Public Health, Johns Hopkins University, Autumn Quarter, 1919–20; Fellow in Pathology, Mayo Foundation, Spring and Summer Quarters, 1921–22; Field Director, International Health Board, 1917; Chief of Laboratory, 33d Division, U. S. Army, and Pathologist, Base Hospital No. 42, A. E. F., 1917–18; Chief of Laboratory, A. R. C. Military Hospital No. 9, A. E. F.; Bacteriologist, A. R. C. Commission to Germany, and Chief of Bureau of Medical Research, A. R. C. Commission to Poland, 1918–19; First Lieutenant and Captain, M. C., U. S. A., and Deputy Commissioner (Major, U. S. A.), American Red Cross, 1917–19. At Stanford since 1920.

Schurz, Franklin Dunn, (1)
Junior Associate, Food Research Institute, Kingscote

A.B., Harvard, 1919, M.B.A., 1921.

Schussler, Hermann, Jr., (123) Franklin 1388
Clinical Instructor in Medicine (Pediatrics), 1800 Franklin, SF-sf

B.S., University of California, 1914; M.D., Harvard Medical School, 1918; Assistant Resident Physician, Barnes Hospital, St. Louis (Mo.), 1920. At Stanford since 1921.

†Schwartz, William Leonard, (123) PA 239W
Instructor in Romanic Languages, 421 Harvard, College Terrace

A.B., Ohio Wesleyan, 1910; A.M., Stanford, 1920. Professor of English, Kagoshima 7th Government College, Japan, 1910–14, Nagasaki Imperial College of Commerce, 1914–19; Professor of French, College of the Pacific, 1919–20. At Stanford since 1920.

†Sears, Jesse Brundage, (134) PA 595W
Professor of Education, 270 Parkinson-p

A.B., Stanford, 1909; Ph.D., Teachers' College, Columbia, 1920. Student, University of Chicago, Summer Quarter, 1910; Research Scholar, Teachers' College, Columbia University, 1910–11; Instructor in Education, University of Wisconsin, 1909–10; Assistant in Educational Sociology, Teachers' College, Columbia University, Summer Session, 1911. At Stanford since 1911.

Sellards, John Armstrong, (34) PA 1039
Endowment Secretary, Cowper Court

A.B., Illinois, 1912; A.M., Stanford, 1916. At Stanford, 1916–17, 1919–20, 1922–23, and since 1924.

Severson, Lewis Everett, (4) PA 2080
Acting Instructor in Elementary Accounting (Summer Quarter), 116 Toyon

A.B., Kansas, 1919; A.M., Stanford, 1923. Instructor in Economics, Pomona College, since 1923.

†Sewall, Edward Cecil, (123) Fillmore 4242
Clinical Professor of Surgery (Otology, Rhinology, Laryngology), 3515 Pacific, SF-sf

A.B., Stanford, 1898; M.D., Cooper Medical College, 1902. Assistant and Instructor in Ophthalmology, Cooper Medical College, 1901–07, Assistant Professor, 1907–09; Student in Freiburg, 1909–10; Associate Professor of Diseases of Eye, Ear, Nose, and Throat, Cooper Medical College, 1910–12. At Stanford since 1912.

†SEWARD, SAMUEL SWAYZE, JR., (124) PA 779W
Associate Professor of English, 262 Kingsley-p

A.B., Columbia, 1896, A.M., 1897. Scholar in Literature, Columbia University, 1896–97, Assistant in Literature, 1897–99; Student, Oxford University, 1899–1900; Acting Professor of English, University of Nevada, 1907; Assistant Professor of English, University of California, Summer Session, 1907, University of Oregon, Summer Session, 1908. At Stanford since 1900.

†SHAFER, GEORGE DANIEL, (1234)
Instructor in Physiology, 321 Melville-p

A.B., Indiana, 1900; A.M., Stanford, 1906; Ph.D., Cornell, 1908. Fellow in Entomology and Invertebrate Zoology, Cornell University, 1906–08; Research Assistant, Experiment Station, Michigan Agricultural College, 1908–14, Associate, 1914–17. At Stanford since 1918.

†SHANNON, GEORGE POPE, (123) Redwood 1709F14
Instructor in English, Portola, Redwood City-RFD-rc

A.B., Vanderbilt, 1917.

†SHARP, FRANK CHAPMAN, (4) PA 1144
Acting Professor of Philosophy (Summer Quarter), 24 Alvarado

A.B., Amherst, 1887; Ph.D., Berlin, 1892. Instructor and Professor of Philosophy, University of Wisconsin, since 1893; Acting Professor of Philosophy, Summer Sessions, Columbia University, 1908, University of Colorado, 1909, University of Chicago, 1915.

†SHEPHERD, HAROLD, (123) PA 1141M
Associate Professor of Law, 677 Melville-p

A.B., Stanford, 1919, J.D., 1922. Associate Professor of Law and Dean of the Law School, University of Wyoming, 1922–23. At Stanford since 1923.

†SLOAN, WILLIAM HENRY, (123) PA 1954W2
Associate Professor of Chemistry, Alta Mesa-Box 105, p

A.B., Stanford, 1903, A.M., 1904. Student, University of Leipzig, 1904–05; Assistant Chemist, San Francisco Board of Health, 1905–06. At Stanford, 1903–04, and since 1906.

†SLONAKER, JAMES ROLLIN, (1234) PA 451
Assistant Professor of Physiology, 334 Kingsley-p

B.S., Wisconsin, 1893; Ph.D., Clark, 1896. Fellow in Biology, Clark University, 1893–96; with United States Fish Commission, Woods Hole (Mass.), Summer, 1895; Instructor in Zoology, Indiana University, 1896–99, Indiana University, Biological Station, 1896–1900; Assistant Professor of Zoology, Indiana University, 1899–1901; Research Assistant in Neurology, University of Chicago, 1901–02, Associate in Neurology, 1902–03. At Stanford since 1903.

SMITH, EVERETT WALLACE, (123) PA 1041
Associate Professor of English, 12 Alvarado

A.B., Stanford, 1899. At Stanford since 1910.

†SMITH, GILBERT MORGAN, (1)
Acting Associate Professor of Botany
(Autumn Quarter), 603 Melville

Associate Professor of Botany, University of Wisconsin.

SMITH, JAMES PERRIN, (123) PA 1218W
Professor of Paleontology, 1335 Cowper-p

A.B., Wofford College, 1884; A.M., Vanderbilt, 1886; Ph.D., Göttingen, 1892; LL.D, Wofford College, 1916. Assistant Geologist and Chemist, Arkansas Geological Survey, 1887–90; Assistant Geologist, U. S. Geological Survey, 1895–1906, Geologist since 1906. At Stanford since 1892.

†SMITH, STANLEY ASTREDO, (234) Redwood 285W
Associate Professor of French, 2 Finger, Redwood City-rc

A.B., Stanford, 1903, A.M., 1905. Assistant in Romanic Languages, Stanford University, 1903–04, Instructor, 1904–07; Student, Universities of Paris and Madrid, 1906–07; Instructor in French and Italian, University of Washington, 1907–11; Student, Harvard University, 1911–13, Instructor in Romance Languages, 1912–13; Professor of Romance Languages, Reed College, 1913–14. At Stanford, 1903–07, and since 1914.

SNELL, ELIZABETH BURRITT (Mrs.), (1234) PA 508R
Appointment Secretary, 551 University

A.B., Stanford, 1908. At Stanford since 1916.

SNODGRASS, KATHARINE, (4) PA 1025
Research Associate, Food Research Institute, Madroño

A.B., Bryn Mawr, 1915; A.M., Columbia University, 1918. Research Assistant, War Industries Board, 1918–19, Federal Reserve Board, 1919–22; Associate Editor, New York *Journal of Commerce*, 1923. At Stanford since 1924.

†SNYDER, JOHN OTTERBEIN, (23) PA 1081M
Associate Professor of Zoology, 8 Alvarado

A.B., Stanford, 1897, A.M., 1899. Assistant, U. S. Fish Commission, 1897, 1899, 1904, 1915, 1916; Naturalist on U. S. S. "Albatross" engaged in deep sea investigations, 1902, 1906; Expert Ichthyologist, U. S. National Museum, 1914; Fisheries Expert, Fish and Game Commission of California, since 1919. At Stanford since 1897.

†SOMERS, GEORGE BURBANK, (123) Redwood 1714F2
Clinical Professor of Gynecology, Woodside-RFD, rc

A.B., Harvard, 1886; M.D., Cooper Medical College, 1888. Chief Surgeon, San Francisco Emergency Hospital, 1891–95; Adjunct to Chair of Gynecology, Cooper Medical College, 1889, Professor of Gynecology, 1901; Gynecologist to Lane Hospital, 1900–12. At Stanford since 1911.

†SPALDING, ALFRED BAKER, (1234) Fillmore 826
Professor of Obstetrics and Gynecology, 2651 Green, SF-sf

A.B., Stanford, 1896; M.D., Columbia, 1900. House Surgeon, General Memorial Hospital, New York, 1900–01; Assistant Resident Physician, Sloane Maternity Hospital, New York, 1901–02; Instructor in Obstetrics, University of California, 1902–05, Assistant Professor, 1905–09, Professor, 1909–12. At Stanford since 1912.

†SPIRO, HARRY, (1234) Bayview 153
Assistant Clinical Professor of Medicine, 2255 Lake, SF-sf

Ph.G., California, 1893; M.D., Cooper Medical College, 1904. Instructor in Pharmacology, Cooper Medical College, 1905–07. At Stanford since 1919.

†SPOEHR, HERMANN AUGUSTUS, (4)
Acting Professor of Chemistry
(Summer Quarter), Stanford Union

B.S., Chicago, 1906, Ph.D., 1909. Student, University of Berlin, 1907, University of Paris, 1908; Swift Fellow in Chemistry, University of Chicago, 1909, Associate in Chemistry, 1910; Staff Member, Department of Botanical Research, Carnegie Institution, Washington, since 1910.

†Sprague, Charles Myron, (234)
Assistant Director of Intramural Sports, 847 Bryant-p
At Stanford since 1924.

Stanley, Edward John, (123) PA 544W
Teaching Specialist in Pattern Making, 269 Hawthorne-p
Machinist with Pacific Iron Works, San Francisco, 1879, Blacksmith, 1880, Draughtsman, 1881, Pattern Maker, 1883–86; Third Assistant Engineer, Steamer "Alabama," 1882; Foreman Pattern Maker, Union Iron Works, San Francisco, 1886–1901, 1906. At Stanford since 1901.

Starks, Chloe Lesley (Mrs.), (124) PA 812M
Assistant Professor of Education (Graphic Art), 1115 Ramona-p
At Stanford since 1899.

†Starks, Edwin Chapin, (123) PA 812M
Assistant Professor of Zoology, 1115 Ramona-p
Assistant in United States Bureau of Biological Survey, 1897–99; Curator of the Museum and Assistant Professor of Zoology, University of Washington, 1899–1900. At Stanford since 1900.

†Stebbins, Horatio Ward, (123) PA 316
Associate Professor of Mechanical Engineering, 327 Addison-p
A.B., California, 1889; B.S., Massachusetts Institute of Technology, 1902. Assistant to Engineer of Tests, Southern Pacific Railroad Company, 1902–05; Engineer and Estimator, San Francisco Bridge Company, 1905–13. At Stanford since 1914.

†Stephenson, Henry Augustus, (123) Sutter 3560
Assistant Clinical Professor of Obstetrics and Gynecology, 650 Bush, SF-sf
A.B., Randolph-Macon College, 1906; M.D., Johns Hopkins Medical School, 1910. Assistant Resident Obstetrician, Johns Hopkins Hospital, 1911–12, Resident Obstetrician, 1912–14; Assistant in Obstetrics, Johns Hopkins Medical School, 1911–12, Instructor, 1912–14. At Stanford since 1914.

†Stevens, William Emerson, (123) West 700
Associate Clinical Professor of Obstetrics and Gynecology (Urology), 1007 Gough, SF-sf
M.D., California, 1899. Chief of Genito-Urinary Department, Mount Zion Hospital and Mount Zion Clinics; Chief of Genito-Urinary Department and Department of Urology in Women, San Francisco Polyclinic and Post Graduate School of Medicine; Genito-Urinary Surgeon, Bethlehem Shipbuilding Corporation (Ltd.) Hospital; Gynecological Urologist, San Francisco County Hospital. At Stanford since 1922.

Stillman, Minna, (1234) PA 1048
Document Librarian, 2 Alvarado
A.B., Stanford, 1903. At Stanford since 1912.

†Stillman, Stanley, (1234) West 1034
Professor of Surgery, 1824 Jackson, SF-sf
M.D., Cooper Medical College, 1889. Adjunct Professor of Surgery, Cooper Medical College, 1895–98, Professor of Surgery, 1898–1912; Assistant Visiting Surgeon, City and County Hospital, San Francisco, 1891–99, Visiting Surgeon, 1899–1912; Chief Surgeon, Lane Hospital, 1895–1912; Lieutenant Commander, U. S. N. R. F., 1917–19. At Stanford since 1909.

STOLTENBERG, CLARA S., (124) PA 199
Associate Professor of Anatomy, 9 Salvatierra
A.B., Stanford, 1896, A.M., 1897. At Stanford since 1896.

†STONE, CALVIN PERRY, (1234) PA 494R
Assistant Professor of Psychology, 656 Channing
A.B., Indiana, 1915, A.M., 1916; Ph.D., Minnesota, 1921. Teaching Fellow in Education, University of Minnesota, 1916; Director of Psychological Research, Indiana State Reformatory, 1916–17; Psychological Examiner, U. S. Army, 1917–19; Teaching Fellow in Psychology, University of Minnesota, 1919–21; Instructor in Neural and Histological Anatomy, University of Minnesota, 1921–22. At Stanford since 1922.

†STRONG, EDWARD KELLOGG, JR., (123) PA 1649
Acting Associate Professor of Psychology, 1020 Ramona-p
B.S., California, 1906, M.S., 1909; Ph.D., Columbia, 1911. Assistant, Barnard College, 1909–10; Fellow in Psychology, Columbia University, 1910–11; Research Fellow in Advertising for Ad Men's League, New York City, 1911–12; Research Fellow in Advertising for Association of National Advertisers, 1912–15; Lecturer, Extension Department, Columbia University, 1911–14, 1919; Professor of Psychology and Psychology of Education, George Peabody College for Teachers, 1914–17; Professor and Head of Department of Vocational Education, Carnegie Institute of Technology, 1919–21, Head of Bureau of Educational Research, 1921–23. At Stanford since 1923.

†STUART, GRAHAM HENRY, (123) PA 1748J
Assistant Professor of Political Science, 915 Waverley
A.B., Western Reserve, 1908; A.M., Wisconsin, 1918, Ph.D., 1919. Student, Alliance Française, 1910, Sorbonne, 1911, École Libre des Sciences Politiques, 1913–14; Assistant in Political Science, University of Wisconsin, 1917, Assistant Professor, 1921–23. At Stanford since 1923.

†STUART, HENRY WALDGRAVE, (123) PA 1060R
Professor of Philosophy, 20 Cabrillo
Ph.B., California, 1893; Ph.D., Chicago, 1900. Teacher, Hollister (Cal.) H. S., 1893–94; Fellow in Political Economy, University of Chicago, 1894–96; Instructor (Pro tem.) in Economics and Psychology, Washington University, St. Louis, 1896–97; Teacher, Central School, Oakland (Cal.), 1897–98; Principal, Woodland (Cal.) H. S., 1898–99; Fellow in Philosophy, University of Chicago, 1899–1900; Instructor in Economics and History, Ripon College, 1900–01; Instructor in Philosophy, State University of Iowa, 1901–04; Acting Professor of Philosophy, Lake Forest College, 1904–05, Assistant Professor, 1905–07. At Stanford since 1907.

SUTLIFF, HELEN BINNINGER, (1234) PA 876
Chief Cataloguer, Library, 19 Salvatierra
A.B., Kansas, 1890. Head Cataloguer, University of Kansas Library, 1891–1905; Cataloguer in Columbia University Library, Summer, 1901. At Stanford since 1904.

†SWAIN, ROBERT ECKLES, (134) PA 247
Professor of Chemistry, 10 Mirada
A.B., Stanford, 1899; M.S., Yale, 1901, Ph.D., 1904. Student, Universities of Strassburg and Heidelberg, 1901–02, Yale University, 1909–10. At Stanford since 1898.

SWEET, MARY C., (1234) PA 1748W
Assistant Registrar, Lower Division, 921 Scott-p
A.B., Vassar, 1906; B.S., Simmons, 1909.

SWETT, WILBUR FRANK, (23) West 6193
Clinical Instructor in Surgery
(Ophthalmology), Lane Hospital, SF-sf
A.B., Stanford, 1917; M.D., Stanford, 1922. At Stanford since 1923.

†TATLOCK, JOHN S. P., (23) PA 1061M
Professor of English Philology, 5 Santa Ynez
A.B., Harvard, 1896, A.M., 1897, Ph.D., 1903. Student, Universities of Michigan, 1899–1901, Freiburg im Breisgau, 1904; Instructor in English, University of Michigan, 1897–1901, 1903–05, Assistant Professor, 1905–07, Junior Professor, 1907–12, Professor, 1912–15; Professor of English, University of Chicago, Summer Quarter, 1909, Dartmouth College, Summer Session, 1914. At Stanford since 1915.

TAYLOR, ALONZO ENGLEBERT, (1234) PA 1368J
Director, Food Research Institute, Kingscote
M.D., Pennsylvania, 1904; LL.D., Wisconsin, 1920. Student, University of Berlin, 1890–91, 1899–1900; Instructor, University of Pennsylvania, 1897–99; Professor of Pathology, University of California, 1900–10; Professor of Pathological Chemistry, University of Pennsylvania, 1910–21. At Stanford since 1921.

†TEMPLETON, ROBERT LYMAN, (123) PA 1590
Track Coach, 535 Fulton-p
A.B., Stanford, 1921.

†TERMAN, LEWIS MADISON, (123) PA 1178
Professor of Psychology, 9 Dolores
A.B., Indiana, 1902, A.M., 1903; Ph.D., Clark University, 1905. Fellow in Psychology and Education, Clark University, 1903–05; Principal of High School, San Bernardino (Cal.), 1905–06; Head of Department of Child Study and Pedagogy, Los Angeles State Normal School, 1906–10; Instructor in Education, Indiana University, Summer Session, 1909, New York University, Summer Session, 1916, Columbia University, Summer Session, 1917; Major, Division of Psychology, Surgeon General's Office, Washington (D.C.), 1918. At Stanford since 1910.

†THOMAS, EARL CHARLES, (123) PA 1231J
Assistant Professor of Civil Engineering, 805 Melville
A.B., Stanford, 1914. Instructor in Railroad Engineering, A. E. F. University, Beaune, France, 1919. At Stanford since 1920.

†THORNHILL, CLAUDE E., (123)
Assistant Coach in Football, Manzanita

†TICKELL, FREDERICK GEORGE, (123) PA 1768W
Associate Professor of Petroleum Technology, 652 Forest-p
B.S., California, 1912. Engineer at Dawson, Y. T., for the Yukon Gold Co., 1912; Assistant in Mineralogy, University of California, 1913; Engineer, Croesus Gold Mining and Milling Co., 1914–15; Geologist and Petroleum Engineer, Southern Pacific Co., 1917–21. At Stanford since 1921.

†TOLMAN, CYRUS FISHER, JR., (234) PA 245W
Professor of Economic Geology, County Road
B.S., Chicago, 1896. Fellow in Geology, University of Chicago, 1897–98; Consulting Economic Geologist, since 1898; Professor of Geology, University of Arizona, 1905–06, Professor of Geology and Mining, 1906–12; Territorial Geologist of Arizona, 1910–12. At Stanford since 1912.

†TOWNE, EDWARD BANCROFT, (123) Fillmore 3270
Assistant Professor of Surgery, 2822 Clay, SF-sf

A.B., Harvard, 1906, M.D., 1913. House Officer and Assistant Resident Surgeon, Peter Bent Brigham Hospital, Boston, 1913–15; Honorary Medical Officer, Royal Army Medical Corps, France, 1915–16; Voluntary Assistant, Mayo Clinic, 1916-17; Assistant Resident Surgeon, Brigham Hospital, and Assistant in Surgery, Harvard Medical School; Lieutenant, Captain, and Major, Medical Corps, U. S. A., A. E. F., 1917–19. At Stanford since 1919.

†TOWNLEY, SIDNEY DEAN, (123) PA 1016
Professor of Applied Mathematics, 21 Cabrillo

B.S., Wisconsin, 1890, M.S., 1892; D.Sc., Michigan, 1897. Fellow in Astronomy, University of Wisconsin, 1890–91, Assistant in Astronomy and Mathematics, 1891–92; Hearst Fellow in Astronomy, University of California (Lick Observatory), 1892 93; Instructor in Astronomy, University of Michigan, 1893-95, 1896–98; Student, Universities of Berlin and Munich, 1895–96; Instructor in Practical Astronomy, University of California, 1898–1903, Lecturer in Astronomy, 1904–07; Astronomer in charge of International Latitude Observatory, 1903–07. At Stanford since 1907.

TRAVER, HOPE, (1)
Lecturer in English (Autumn Quarter), Mills College-mc

A.B., Vassar, 1896; Ph.D., Bryn Mawr, 1907. Teacher, Memphis, Tenn., 1894–95, 1896, Passaic, N. J., 1897, Red Bank, N. J., 1897–1901; Graduate Student, Bryn Mawr College, and Private Tutor, Whitford, Pa., 1901–02; Graduate Scholar, Bryn Mawr College, and Teacher of English in Miss Wright's School, Bryn Mawr, Pa., 1902–03; Fellow in English, Bryn Mawr College, 1903–04; Holder of the Mary E. Garrett European Fellowship, and Student, University of Munich, and Research Student in Bibliothèque Nationale, Paris, 1904–05 and First Semester, 1905–06; Graduate Scholar and Fellow by Courtesy, Bryn Mawr College, Second Semester, 1905–06; Teacher of English in Huntington Hall, Los Angeles, 1906–09; Professor of English, Mills College, 1909–21 and since 1922; Research Student, England and Germany, Summer of 1913; Lecturer in English, Girton and Newnham Colleges, Cambridge, 1921–22.

†TREAT, PAYSON JACKSON, (1234) PA 1128
Professor of History, 8 Dolores

A.B., Wesleyan, 1900; A.M., Columbia, 1903; Ph.D., Stanford, 1910. Instructor in History, Barnard School, New York City, 1900–03; Graduate Student, Stanford University, 1903–05; Research Student in Far East, 1906–07; Instructor in Government, Harvard University, 1908–09; Lecturer in Political Science, University of California, Second Semester, 1915–16. At Stanford since 1905.

†TROTTER, REGINALD GEORGE, (234) PA 797
Assistant Professor of History, 875 University

A.B., Yale, 1911; A.M., Harvard, 1915, Ph.D., 1921. History Master, Thacher School, Ojai (Cal.), 1911–14; Parker Traveling Fellow in Canadian History, Harvard University, 1916–17, Austin Teaching Fellow in History, 1917–18, Instructor in History, 1918–19; Lecturer in European History, Boston University, April–June, 1918; Lecturer in Charge of War Issues Course, Northeastern College, Fall Term, 1918; Eric Dennis Lecturer in Political Science, Dalhousie University, March, 1919. At Stanford since 1919.

TRUE, HELEN ELLA, (1234) PA 538R
Secretary to the President, 682 University

A.B., Mt. Holyoke, 1905. At Stanford since 1914.

UMPHREY, GEORGE WALLACE, (4) PA 1040R
Acting Professor of Spanish (Summer Quarter), 4 Alvarado

A.B., Toronto, 1899; A.M., Harvard, 1901, Ph.D., 1905. Professor of Romanic Languages, University of Washington, since 1909.

†VERNIER, CHESTER GARFIELD, (1234) PA 254
Professor of Law, 21 Mirada

A.B., Butler College, 1903; J.D., Chicago, 1907. Graduate Scholar, University of Chicago, 1904–05; Instructor in Law, Indiana University, 1907–08; Professor of Law, University of Nebraska, 1908–10, Indiana University, 1909–11, University of Illinois, 1911–16; Lecturer in Law, University of Chicago, Summer Quarter, 1911, 1912, University of Michigan, Summer Session, 1914. At Stanford since 1916.

†VESTAL, ARTHUR GIBSON, (123) MP 1886W
Assistant Professor of Biology, Cambridge Road, Stanford Park

A.B., Illinois, 1911; A.M., Colorado, 1913; Ph.D., Chicago, 1915. Instructor in Biology, University of Colorado, 1911–14, and Summer Sessions, 1919, 1920; Professor of Biological Sciences, Eastern Illinois State Normal School, 1915–20. At Stanford since 1920.

†WALLIS, LAWRENCE BERGMANN, (123)
Instructor in English, 201 Homer-p

A.B., Dartmouth, 1918; A.M., Harvard, 1921. Submaster and Teacher of English, Hanover (N. H.) High School, 1919; Instructor in English Composition, Wabash College, 1919–20. At Stanford since 1921.

WALSH, MARY, (123) West 6193
Instructor in Practice of Nursing, 2340 Clay, SF-sf

Graduate, Massachusetts General Hospital School of Nursing. Sometime Assistant Superintendent of Nurses, Stanford University Hospital, Assistant Chief Nurse, Naval Base No. 2, Assistant Director, Nursing Department, American Red Cross in Poland. At Stanford since 1923.

†WARNER, GLENN SCOBEY, (3)
Advisory Coach in Football, Springville, N. Y.

LL.B., Cornell University, 1894.

†WEBSTER, DAVID LOCKE, (123) PA 1482
Professor of Physics, Dolores

A.B., Harvard, 1910, Ph.D., 1913. Assistant in Mathematics, Harvard University, 1909–10, Instructor, 1910–14, Assistant in Physics, 1911–15, Instructor, 1915–17; Assistant Professor of Physics, University of Michigan, 1917; First Lieutenant, Science and Research Division, A. S. S. R. C., later B. A. P., 1917–18, Captain, 1918; Assistant Professor of Physics, Massachusetts Institute of Technology, 1919–20. At Stanford since 1920.

†WENZEL, ROBERT NICHOLAS, (123) PA 782J
Instructor in Chemistry, 1112 Ramona-p

A.B., Stanford, 1916, Engineer (in Chemistry), 1917.

†WEST, VICTOR J., (123) PA 291J
Professor of Political Science, 376 Addison

Ph.B., Chicago, 1905. Instructor in English and Civics, Bradley Polytechnic Institute, 1905–06; Fellow in Political Science, University of Chicago, 1908–10, Assistant in Political Science, 1910; Instructor in Politics, Northwestern University, 1910–13; Assistant Chief of Service, Illinois Progressive Service Board, 1913; Instructor in Political Science, University of California, Summer Session, 1915; Special Investigator, U. S. Bureau of Efficiency, 1918, 1920–21. At Stanford since 1913.

†WESTERMANN, WILLIAM LINN, (4) PA 1320J
Acting Professor of History (Summer Quarter), Kingscote

A.B., Nebraska, 1894, A.M., 1896; Ph.D., Berlin, 1902. Assistant in Latin, University of Nebraska, 1894–96; Teacher of Latin, Decatur (Ill.) High School,

1896–99; Instructor in Latin and Greek, University of Missouri, 1902–04; Assistant Professor, 1904–06; Assistant Professor of History, University of Minnesota, 1906–08; Associate Professor of History, University of Wisconsin, 1908–14, Professor, 1908–20; Professor of Ancient History, Cornell University, 1920–23; Professor of History, Columbia University, since 1923; Adviser on Turkish Affairs, and Chief of Division of Western Asia, American Commission to Negotiate Peace, Paris, 1918–19; Delegate on Greek Territorial Commission, Peace Conference, Paris, 1918–19; Member of Commission reporting to State Department on Armenian Boundary Decision, 1920.

†WEYMOUTH, FRANK WALTER, (123) — 3 Salvatierra
Associate Professor of Physiology,

A.B., Stanford, 1909, A.M., 1911, Ph.D., 1923. Assistant in Physiology, Johns Hopkins University, 1912–13. At Stanford since 1910.

†WHITAKER, ALBERT CONSER, (124) — PA 1081J
Professor of Economics, — 9 Alvarado

A.B., Stanford, 1899; Ph.D., Columbia, 1904. Scholar in Economics, Columbia University, 1899–1900. Fellow, 1900–01; Student, University of Berlin, 1901; Lecturer in Economics and Social Science, Columbia University, 1906–07; Lecturer in Economics, University of California, Summer Sessions, 1906, 1911; Acting Professor of Economics, University of Chicago, second half of 1911–12 and 1912–13. At Stanford since 1902.

WHITE, SARAH GERTRUDE, (1234) — West 6193
Instructor in the Theory of Nursing, — 2340 Clay, SF-sf

B.S., Teachers' College, Columbia University, 1922. Graduate, Pasadena Hospital School of Nursing, 1898; Instructor's and Supervisor's Diploma, Teachers' College, Columbia, 1922. At Stanford since 1922.

[†WHITTIER, CLARKE BUTLER, — Menlo Park 1243R
Professor of Law, — Santa Cruz Ave., Menlo Heights]

A.B., Stanford, 1893; LL.B., Harvard, 1896. Attorney at Law, Los Angeles, 1895–96; Student, Stanford University, 1896–97, Instructor in Law, 1897–99, Assistant Professor, 1899–1900, Associate Professor, 1900–02; Professor of Law, University of Chicago, 1902–14. At Stanford, 1897–1902, and since 1915.

†WILBUR, RAY LYMAN, (1234) — PA 46
President of the University, — Lagunita Knoll

A.B., Stanford, 1896, A.M., 1897; M.D., Cooper Medical College, 1899; LL.D., California, 1919, Arizona, 1919. Assistant in Physiology, Stanford University, 1894–96, Instructor, 1896–97, Assistant Professor, 1900–03; Lecturer and Demonstrator in Physiology, Cooper Medical College, 1899–1900; Professor of Medicine, and Dean of the Stanford Medical School, 1909–16. At Stanford, 1894–97, 1900–03, and since 1909.

†WILDMAN, MURRAY SHIPLEY, (134) — PA 1179
Professor of Economics, — 37 Salvatierra

A.B., Earlham, 1893; Ph.D., Chicago, 1904. Professor of History and Economics, Central College (Mo.), 1904–05; Instructor in Economics, University of Missouri, 1905–06, Assistant Professor, 1906–08; Acting Assistant Professor, University of Chicago, Summer Quarter, 1909; Assistant Professor of Economics and Commerce, Northwestern University, 1909–11, Professor, 1911–12. At Stanford since 1912.

†WING, CHARLES BENJAMIN, (123) — PA 445W
Professor of Structural Engineering, — 345 Lincoln

C.E., Cornell, 1886. Fellow in Civil Engineering, Cornell University, 1886–87, Instructor, 1887–90, Assistant Professor, 1890–91; Engineer, Pompton (N.J.) Powder Co., 1887, Phoenix Powder Co., Farmingdale (N.J.), 1888; Assistant

Engineer, Berlin (Conn.) Iron Bridge Co., 1889–90; Professor of Bridge and Hydraulic Engineering, University of Wisconsin, 1891–92. At Stanford since 1892.

†WOLFSOHN, JULIAN MAST, (123) Garfield 627
Associate Clinical Professor of Medicine (Neurology), 2238 Divisadero, SF-sf

A.B., University of California, 1905, M.S., 1907; M.D., Johns Hopkins University Medical School, 1911. Research Assistant, Herzstein Laboratory, University of California, 1906–07; Medical House Officer, Johns Hopkins Hospital, 1911–12; Captain, M. R. C., U. S. A., 1917–19. At Stanford since 1913.

†WOLTER, HARRY, (123) PA 1185M
Director of Baseball, Cowper Court-p

†WOOLSEY, CHESTER HOWARD, (123) Fillmore 941
Clinical Instructor in Surgery (Genito-Urinary), 2220 Sacramento, SF-sf

B.S. California, 1895, M.D., 1901. Assistant to Chair of Clinical Medicine, University of California, 1902–06; State Bacteriologist, California, 1903–04; Assistant to Chair of Genito-Urinary Surgery, Cooper Medical College, 1911–12; Surgeon in Reserve, U. S. Public Health Service. At Stanford since 1912.

†WYCKOFF, HARRY ALPHONSO, (123) Oakland 7902
Instructor in Medicine, 417 Oakland, Oakland-o

A.B., Stanford, 1907, M.D., 1916. Head of Department of Physical Education, Los Angeles High School, 1907–12; Bacteriologist, San Francisco Board of Health Laboratories, 1917; Pathologist, Napa State Hospital, 1918. At Stanford since 1919.

†YERINGTON, HENRY HERBERT, (123) Fillmore 2458
Associate Clinical Professor of Medicine (Pediatrics), 2019 Pacific, SF-sf

M.D., Columbia University, 1908. Student, Stanford University, 1900–04, Bellevue Hospital, New York, 1909–10; House Physician, Pediatric Service, Bellevue Hospital, 1909–10; Instructor in Pediatrics, Cooper Medical College, 1910–11; Visiting Pediatrician, San Francisco Hospital, Assistant Visiting Staff, Children's Hospital, San Francisco. At Stanford since 1913.

YOST, MARY, (1234) PA 1203
Dean of Women, and Associate Professor of English, 2 Lasuen

A.B., Vassar, 1904, A.M., 1912; Ph.D., Michigan, 1917. Graduate Scholar, Vassar College, 1904–05; Fellow, University of Michigan, 1913–15; Assistant in English, Wellesley College, 1906–07; Instructor in English, Vassar College, 1907–13; Assistant Professor, 1915–21; Reader, College Entrance Examination Board, 1912–18, Head Reader and Examiner, 1918–21. At Stanford since 1921.

YOUNG, STEWART WOODFORD, (123)
Professor of Physical Chemistry, Santa Cruz Ave., Menlo Hts.

B.S., Cornell, 1890. Assistant in Chemistry, Cornell University, 1890–91; Instructor in Chemistry, Swarthmore College, 1891–93. At Stanford since 1893.

†ZOBEL, ALFRED JACOB, (123) Pacific 119
Lecturer on Proctology, 352 Lake, SF-sf

M.D., Cooper Medical College, 1898. Assistant Prosector, Anatomy Department, Cooper Medical Department, 1899–1900, Assistant Medical Clinic, 1899; Assistant Medical Clinic, San Francisco Polyclinic, 1901–03, Associate Professor in Medicine, 1904–05, Associate Professor of Proctology, 1906–09, Chief of Department of Rectal Surgery, since 1909; Consulting Rectal Surgeon, Mt. Zion Hospital, 1917; Visiting Rectal Surgeon, San Francisco Hospital, since 1908. At Stanford since 1918.

ASSISTANTS IN INSTRUCTION AND RESEARCH

Arthurs, Elizabeth, Obstetrics and Gynecology, (123) Lane Hospital, SF-sf
M.D., Johns Hopkins, 1921. Senior Interne, Lane Hospital, 1922–23.

Bachman, Frederick W., Romanic Languages, (4) 246 Toyon
A.B., Stanford, 1922.

Bacigalupi, Rimo, Botany, (23) 238 Branner
A.B., Stanford, 1923.

Bartlett, Emily, Botany, (4) Pacific Grove-pg
A.B., Maine, 1917.

Barry, Raymond Walker, English, (12) (PA 414M) 429 Forest-p
A.B., Ohio Wesleyan, 1915; A.M., Stanford, 1916.

Benson, Gilbert Theron, Botany, (23) Kingscote
A.B., Stanford, 1923.

Benzinger, Martin J., Medicine, (123) (Garfield 62) Hotel Chancellor, SF-sf
B.S., Cincinnati, 1916, M.D., 1918. Assistant in Surgery, San Francisco Polyclinic, 1921.

Bianchi, Marie Lucy, Romanic Languages, (123) 852 Washington, Mountain View-mv
A.B., Stanford, 1923, A.M., 1924.

Bonnot, Hester Davis (Mrs.), General Biology, (123) University Park
A.B., Stanford, 1921, A.M., 1922.

Brown, Kenneth William, Chemistry (3) 28 Lasuen
A.B., Stanford, 1924.

Brown, Philip Meader, Economics, (123) Stanford Union
A.B., Brown, 1922.

Brunet, Harold Joseph, Romanic Languages, (123) (PA 798R) Cedro Cottage
A.B., Stanford, 1923, A.M., 1924.

Burk, Georgina, Physical Education, (1234) (PA 1161W) San Juan

Burks, Barbara, Psychology, (4) 219 Roble

†Burns, Odis Herschel, English, (124) Mayfield-m
A.B., Kansas, 1916.

†Burns, Robert, Jr., Dental Clinic, (23) (Douglas 2493) 126 Clark Drive, San Mateo-sm
D.D.S., California, 1902. Visiting Dental Surgeon, U. S. Marine Hospital, San Francisco, 1902–03; Visiting Dental Surgeon, St. Francis Hospital.

†Callison, Ferd W., Surgery, (123) (Pacific 5906) 1680 9th Ave., SF-sf
M.D., College of Physicians and Surgeons, San Francisco, 1918. Interne, Stanford Service, San Francisco Hospital, 1918; Resident Physician, St. Francis Hospital, 1918–19, San Francisco Polyclinic, 1919–22; Assistant, Surgical Clinic, San Francisco Polyclinic, since 1922.

Campbell, John Lockhart, Clinic Dentist, (123) 1820 62nd St., Berkeley-b
D.D.S., California, 1917.

Case, Nelson P., Physics, (4) 659 Forest-p
A.B., Stanford, 1924.

Chase, Mary Katherine, Romanic Languages, (123) 331 Lincoln
A.B., Stanford, 1922.

†von Christierson, Sigurd, Surgery (Ear, Nose, Throat), (123) (Fillmore 4741) 2401 Sacramento, SF-sf
A.B., Stanford, 1917, M.D., 1922.

Chuck, Faw-Yap, Chemistry, (3) 12 Cabrillo
A.B., Stanford, 1922.

†Clay, Harry E., Obstetrics and Gynecology, (123) (Douglas 2483) 1980 Washington, SF-sf
M.D., Rush Medical College, 1904. House Surgeon, Passavant Memorial Hospital, 1904–05; Assistant Professor of Surgery, Willamette University (Ore.), 1911–12; Chair of Gynecology, Willamette University, 1912–15; Member Oregon State Board of Health, 1916, until entry into service; Captain, U. S. A., 1917, Major, 1918.

†Coe, Harry Carson, Medicine (Dermatology), (123) (West 4801) 2360 Union, SF-sf
A.B., Stanford, 1916, M.D., 1922.

†Cooper, Harold John, Surgery, (12) (Garfield 1249) 728 Flood Bldg., SF-sf
A.B., Stanford, 1917.

†Cowdery, Karl Montague, Psychology, (23) 420 Florence
A.B., Oberlin, 1915; A.M., Stanford, 1922.

†Cummings, Benjamin F., Romanic Languages, (123) (PA 558R) 235 Emerson-p
A.B., Utah, 1913.

Daugherty, Lyman H., Botany, (4) 801 Waverley-p

Delbon, Montana, Romanic Languages, (123) Manzanita
A.B., Stanford, 1923.

†Dudley, Hubert W., Surgery (Eye), (123) (SR 370J) 231 Bayview, San Rafael-sr
M.D., Jefferson Medical College, 1888; M.D., Central College of Physicians and Surgeons, 1899. House Surgeon, New York Aural and Ophthalmic Hospital, 1900–01; Clinical Assistant and Special Student, Massachusetts General Hospital, 1910–11.

†Duncan, Hiram B., Surgery, (123) (Douglas 420) 402 16th Ave., SF-sf
M.D., St. Louis University, 1912. Interne, St. Mary's Hospital and French Hospital, 1912–15; Medical Corps, U. S. N., 1917–21; Genito-Urinary Clinic, San Francisco Polyclinic, 1914–17, Surgical Clinic, since 1921.

Eberhard, Clara, Germanic Languages, (1234) (SC 8W) 575 Grant, Santa Clara-sc
A.B., Stanford, 1897, A.M., 1923.

Eiskamp, Ehler Henry, Surgery, (123) (West 6193)
Lane Hospital, SF-sf

A.B., Stanford, 1918, M.D., 1922. Junior Interne, San Francisco Hospital, 1921–22; House Officer, San Francisco Hospital, 1922–23.

Ellis, James Land, English, (123) (PA 757W) 245 Emerson-p

A.B., Hobart, 1916; A.B., University of Washington, 1920, A.M., 1921.

Fenton, Frank L., English, (123) 563 Encina Hall

A.B., Stanford, 1923.

Ferry, Mabel Farwell, English, (123) (PA 964M) 19 Salvatierra

A.B., Stanford, 1923.

Field, John, 2d, Chemistry, (1234) 520 Tennyson-p

A.B., Stanford, 1923.

Firestone, Fred, Medicine, (3) 1921 Lake, SF-sf

B.S., Chicago, 1918; M.D., Rush Medical College, 1920. Interne, Mount Zion Hospital, San Francisco, 1920; Resident Staff, Cook County Hospital, Chicago, 1921–22; Clinical Assistant in Medicine, Mount Zion Hospital, 1922–24.

Forster, Albert E., Geology, (4) San Juan-sj

A.B., Stanford, 1923.

†Fregeau, Aime N., Medicine, (123) (Randolph 6518)
415 Junipero Serra Blvd., SF-sf

M.D., Tufts, 1915. House Officer, St. Elizabeth's Hospital, Boston, 1915–17; U. S. Army, 1917–20; Resident Physician, French Hospital, San Francisco, 1920, Visiting Physician, 1921–22, Physician-in-Chief, since 1923.

von Geldern, Hans, Obstetrics and Gynecology, (1234) (West 1443)
1725 Vallejo, SF-sf

A.B., University of California, 1916; M.D., Stanford, 1920. Senior Interne, Obstetrics and Gynecology, Lane Hospital, 1920–21, Resident, 1921–22.

†Glaeser, W. Edward, Medicine (Tuberculosis) (123)
(Randolph 6534) 245 Ashton, SF-sf

M.D., Hahnemann (U.C.), 1918. Interne, San Francisco Hospital, 1917–18, Resident Physician, Tuberculosis Department, 1918–19.

†Goldman, Samuel A., Surgery (Genito-Urinary), (123)
(Sunset 5130) 1467 Willard, SF-sf

Goodenough, Florence, Psychology (Study of Gifted Children),
(1234) (PA 860J) Kingscote

B.S., Columbia, 1920, A.M., 1921.

†Green, Herlwyn R., Anatomy, (3) 1121 Emerson-p

A.B., Brown, 1897, A.M., 1899; M.D., Pennsylvania, 1903.

Greene, Helen Hartley, Physiology and General Biology, (123)
(PA 1014) 15 Lasuen

A.B., Stanford, 1923.

Greenwood, Gertrude H. (Mrs.), Research Assistant, Food
Research Institute, (1234) 955 Channing-p

Gwinn, Charles Dudley, Dental Clinic, (123) (Garfield 885) 130 32d Ave., SF-sf

D.D.S., California, 1917. Lieutenant, Dental Corps, U. S. N. R. F., 1917–19; Instructor in Extraction, Dental Department, University of California, since 1919; Visiting Dentist, French Hospital, since 1920.

†Hall, James Hinquong, Medicine, (3) 1150 Clayton, SF-sf

A.B., Stanford, 1919, M.D., 1922. Resident Ophthalmologist, Peking Union Medical College, 1922–23.

†Hansen, Joel H., Medicine, (Mission 6889) (123) 2587 Mission, SF-sf

A.B., Wisconsin; M.D., Jefferson Medical College, 1918.

Hawley, Edith Adeline, Research Assistant, Food Research Institute, (1234) 955 Channing-p

B.S., Columbia, 1919, A.M., 1920; Ph.D., Stanford, 1924.

†Helsley, Gordon Friedrich, Surgery, (123) (Sutter 2306) 142 Acadia, SF-sf

A.B., Stanford, 1915, M.D., 1918. Assistant Physician, California State Prison, San Quentin, 1918; Physician, State Prison at Folsom, 1918–20; Surgeon, Celite Products Co., 1920–21; House Physician and Surgeon, Greenpoint Hospital, New York City, 1921–22; Student at Vienna, 1922, at Munich, 1923.

Henry, Collice, Romanic Languages, (3) 291 Geary, SF-sf

A.B., California, 1921, A.M., 1922.

Hill, Archibald Anderson, English, (3) Stanford Union

A.B., Pomona, 1923; A.M., Stanford, 1924.

Hill, Mary Anderson (Mrs.), English, (12) (PA 1077) 1 Salvatierra

A.B., Vassar, 1889; A.M., Stanford, 1922.

Hobe, Adelaide, Research Assistant, Food Research Institute, (1234) (PA 801J) Stanford Park-Box 82, mp

Hosepian, Vaughn M., Bacteriology, (4) 545 Toyon

A.B., Stanford, 1923.

Hunsberger, Harvey S., Medicine, (3) 1215 17th Ave., SF-sf

A.B., Olivet, 1911; M.D., Rush Medical College, 1918. Interne, Southern Pacific Hospital, 1918–19; Resident, Mount Zion Hospital, 1919–20; Lieutenant, U. S. N. R. F., since 1922.

Hunt, Grace M. (Mrs.), Medicine (Neuro-Psychiatry), (123) (Merritt 1461) 444 Lakeshore Blvd., Oakland

Psychologist, Alameda County Detention Home, since 1917; Psychologist, Neuro-Psychiatric Clinic, Alameda County Public Health Center; sometime Lecturer on Criminology, University of California, Summer Session; sometime Psychologist, Berkeley Dispensary; Psychologist, Clinic at County Jail No. 1, San Francisco.

†Irvine, Robert Steele, Surgery (Eye), (Sutter 472) (123) 352 Geary, SF-sf

B.S., Nebraska, 1910, A.M., 1915; M.D., Columbia, 1914. Interne, First Surgical Division, Bellevue Hospital, 1914–16; U. S. Navy Medical Corps, 1917–19; Assistant in Otolaryngology, San Francisco Polyclinic, 1919–22; Eye, Ear, Nose, and Throat Service, South San Francisco Hospital, since 1919.

Irving, Laurence, Assistant in General Biology, (1234) (PA 827W) 725 Stanford Ave., Mayfield-m

A.B., Bowdoin, 1916; A.M., Harvard, 1917; Ph.D., Stanford, 1924.

Kendall, Lois Marjorie, Medicine (Physio-Therapy), (23) (Prospect 8630) 938 Geary, SF-sf

A.B., Wellesley, 1913, Graduate of Physical Education Department, 1916. Assistant in Physical Education, Emma Willard School, Troy (N.Y.), 1916–17; Director of Physical Education, Russell Sage College, Troy (N.Y.), 1916–20; Assistant in Physical Education, Stanford University, 1920–23.

Kerr, Paul Francis, Geology, (4) San Juan-sj

B.S., Occidental, 1919; Ph.D., Stanford, 1923.

†Kirk, Josiah Herman, Surgery (Ear, Nose, Throat), (123) (PA 1099) 251 Embarcadero-p

M.D., Cooper Medical College, 1906.

Klenck, Herman A., Romanic Languages, (1) Stanford Union

A.B., Stanford, 1923.

Klüver, Heinrich, German and Psychology, (234) (PA 1216W) 1106 Ramona

†Jacobs, Jay J., Medicine (Pediatrics), (1)

M.D., Cooper Medical College, 1911; Lieutenant, Medical Corps, U. S. N., 1917–20.

†Lanz, Henry, Slavic, (PA 509) (1234) 918 Cowper-p

Ph.D., Heidelberg, 1911. Student, Imperial University, Moscow, 1904–06, Heidelberg, 1906–11; Instructor-elect in Logic, Reform Gymnasium, and Lecturer in Aesthetics, Beethoven School of Music, Moscow, 1914.

Lee, Edgar C., Surgery (Genito-Urinary), (123) (Kearny 5156) 291 Geary, SF-sf

M.D., Rush Medical College, 1904.

Lewis, John Kent, Medicine, (123) Lane Hospital, SF-sf

A.B., Stanford, 1918, M.D., 1922.

McBride, Rexford William, Bacteriology, (2) (PA 899) 15 Mirada

A.B., Stanford, 1923.

Maillot, Elmer Ellsworth, Geology, (4) San Juan-sj

A.B., Stanford, 1923.

Mahr, August Carl, German, (4) 25 Salvatierra

Ph.D., Heidelberg, 1911; Oberlehrer-Exam, Karlsruhe, 1912. Instructor in German, Sheffield Scientific School, Yale University, 1912–14; Director of the Zentralstelle für Kulturelle Arbeiten in Rüstringen and Editor of *Die Tide*, 1918–21; Teacher of English, German and History of Art, Bergschule Hochwaldhausen, 1921–23.

Marshall, Helen, Psychology and Neuro-Psychiatric Clinic, (123) 1289 2d Ave., SF-sf

A.B., Lake Erie, 1913; A.M., Ohio State, 1918. Research Assistant, Commonwealth Fund, Department of Psychology, Stanford University, 1921–23.

Mayer, Leona Minna, Chemistry, (1) 201 Roble

A.B., Stanford, 1923.

Meherin, J. Minton; Surgery (San Francisco Hospital) (23)
(Garfield 861) 256 Dorantes, SF-sf
M.D., Harvard, 1922. Student, University of California, 1916–19; Interne, San Francisco Hospital, 1922–23.

Michelson, Lewis, Obstetrics and Gynecology, (123)
(Douglas 1068) 1562 Vallejo, SF-sf
M.D., Cooper Medical College, 1917. Student, Vienna, 1910–11; Special Worker, Brady Urological Institute, Johns Hopkins University, 1916-17; Director of Bureau of Social Hygiene, California State Board of Health, since 1918. At Stanford since 1917.

Milliken, Margaret F., Research Assistant, Food Research Institute, (1234) University Park
A.B., Vassar, 1922.

†Munger, Arthur Lee, Obstetrics and Gynecology, (12)
(Prospect 8985) 1113 Clay, SF-sf
A.B., Stanford, 1910, M.D., 1913.

Nicholas, Warren Whittier, Physics, (123) (PA 394J) 458 Channing-p
A.B., Stanford, 1923, A.M., 1924.

Patterson, Allen A., Chemistry, (123) 534 Encina
A.B., Stanford, 1922.

Peckham, Doyle Starr, English, (123) (PA 1042W) 25 Salvatierra
A.B., Stanford, 1923.

Perry, Elizabeth, Research Assistant, Food Research Institute, (1234) 528 Lincoln
B.S., Simmons, 1914; A.M., Stanford, 1920.

Piburn, John Logan, Assistant to Dr. Barrow, (123)
(Franklin 6611) 216 Eddy, SF-sf

Presho, N. Elizabeth, Pharmacology, (123) (West 6193)
2548 Fillmore, SF-sf
A.B., Stanford, 1921.

†Price, Merton James, Surgery (Ear, Nose, Throat), (123)
(Douglas 6440) 1211 Flood Bldg., SF-sf
A.B., Stanford, 1913, M.D., 1916.

Ramelli, Mattie, Romanic Languages, (123) 1 Salvatierra
A.B., California, 1917; A.M., Stanford, 1924.

Rethwilm, Lorruli Anna, Surgery (Anæsthesia), (123)
(West 399) 2217 Webster, SF-sf
A.B., Washington University, 1913; M.D., Stanford, 1917.

Rivington, Gladys M. G., Medicine (Neurology), (123)
(Franklin 3250) 875 Bush, SF-sf
Graduate, Institute for Diseases of Speech and Voice, The Hague, Holland, 1920. Assistant in Speech Defect, Clinic of Stanford Medical School, since 1921.

Robinson, Alfred A., (3) (824–6 Flood Bldg.)
Garfield 4760, Franklin 1772, 1200 Sacramento St.

A.B., Young University, 1901; M.D., Jefferson Medical College, Philadelphia, 1908. Attending Physician, Ogden General Hospital; Chief, Neuropsychology, Dee Memorial Hospital, Ogden, Utah; Neurologist, Latter Day Saints Hospital, Salt Lake City, 1916 18; County Physician, Weber County, Utah, 1913–18; Medical Director, Weber County Hospital, 1913–18; Consulting Neurologist, Relief Home, San Francisco, 1921–22; Assistant, Medicine (Neurology), Stanford, 1921–22.

†Rosburg, August Henry, Surgery, (Garfield 974) (123)
722 23rd Ave., SF-sf

A.B., Iowa, 1909; M.D., Rush Medical College, 1912. Interne at Los Angeles County Hospital, 1912–13; Three-year Fellowship at the Mayo Foundation, 1918–20. At Stanford since 1921.

Ross, Blanch Emline, Romanic Languages, (23) 17 Lasuen

A.B., Stanford, 1924.

Rowland, Gilford Glenn, Research Assistant, Political Science, (123) 251 Toyon

A.B., Stanford, 1923.

†Salomon, Edward, Surgery (Genito-Urinary), (123)
(Sutter 3484) 2619 Lake, SF-sf

B.S., California, 1913; M.D., Stanford, 1916.

Schenck, Hubert Gregory, Geology, (4) San Juan-sj

A.B., Oregon, 1922, A.M., 1923. Associate in Paleontology, University of California, 1923–24.

†Schoonmaker, Guy D., Medicine (Gastro-Intestinal), (123)
(West 8931) 2632 Fillmore, SF-sf

B.S., Vanderbilt, 1913, M.D., 1917. Captain, M. C., U. S. A., 1918.

Schwartz, Laura Virginia, English, (4) 1115 Ramona

A.B., College of the Pacific, 1920; A.M., Stanford, 1921, Ph.D., 1924.

Sheehy, Frank, Surgery, (23) (Garfield 1026) 141 Cortland, SF-sf

M.D., San Francisco College of Physicians and Surgeons, 1920. Interne, Stanford Service, San Francisco Hospital, 1920–21, House Officer, 1921–22; Resident Surgeon, San Francisco Hospital, 1922–23.

†Shepardson, Dwight Emerson, Medicine, (23) (West 6193)
Lane Hospital, SF-sf

A.B., Stanford, 1917, M.D., 1921.

Shiras, Russell Norman, Physics, (123) Stanford Union

A.B., College of the Pacific, 1923.

†Stadtherr, Edward F., Medicine (Neurology), (123)
(Douglas 6593) 1335 Union, SF-sf

M.D., St. Louis University. Assistant Surgeon, U. S. N., 1917–22, Past Assistant, 1920–21.

Stark, Anna Vaal, Education, (123) (PA 571M) 500 Melville-p

A.B., Stanford, 1917.

Stauf, Ida, Romanic Languages, (123) (PA 1195J) 311 Waverley-p

A.B., Stanford, 1910, A.M., 1912.

Stayner, Paul Lewis, Romanic Languages, (23) 603 Middlefield-p
A.B., Stanford,1924.

†Stewart, William Blair, Research Assistant, Food Research Institute, (1234) 1340 Byron
A.B., Reed, 1921.

Strain, Harold Henry, Chemistry, (4) Mayfield-m
A.B., Stanford, 1923, A.M., 1924.

†Strickler, John P., Surgery, (123) (Sutter 2278) 2718 Webster, SF-sf
A.B., Stanford, 1913, M.D., 1916. First Lieutenant, M. C., U. S. A., 1918–19.

Taber, Louise Everett (Mrs.), Surgery, (12) (Sutter 5533) 394 Fair Oaks, SF-sf
A.B., California, 1914; M.D., Stanford, 1920.

Tainter, Maurice Lane, Pharmacology, (123) (West 6193) Stanford Medical School, SF-sf
A.B., Stanford, 1921.

Talbott, Edward Melville, Surgery (Ophthalmology), (12) (Prospect 818) Stanford Medical Bldg., SF-sf
M.D., Georgetown, 1901. Lieutenant Colonel, Medical Corps, U. S. A., retired.

Taylor, Ethel, German, (123) Kingscote
A.B., Michigan, 1906.

†Taylor, Howard Rice, Education, (123) (PA 1830R) 170 Stanford, Mayfield-m
A.B., Pacific University, 1914.

Timpany, Charles Russel, Chemistry, (3) 1775 Lexington, Santa Clara-sc
A.B., Stanford, 1924.

Vertrees, May, Romanic Languages, (4) 236 Roble
A.B., Stanford, 1912.

Voerge, Maurine Grace, Romanic Languages, (1) Kingscote
A.B., Stanford, 1923, A.M., 1924.

Walsh, Mona Desmond, Romanic Languages, (23) 12 Lasuen
A.B., Stanford, 1923.

†Way, Stuart C., Medicine (Dermatology), (123) (Franklin 7389) 501 Taylor, SF-sf
B.S., Wake Forest, 1917; M.D., University of Louisville, 1919. Interne, Louisville City Hospital, 1919–20; Graduate Student in Dermatology, Berlin, 1922.

Weiss, Marie J., Mathematics, (4) Roble

Wells, Gertrude Knox (Mrs.), Research Assistant, Political Science, (123) Castilleja School-p
A.B., Mt. Holyoke, 1909, A.M., 1911.

Wells, Harrington, Zoology, (4) Pacific Grove-pg
A.B., Stanford, 1923, A.M., 1924.

Whitmire, Ethel Dorothy, Medicine, (123) 1020 Dolores, SF-sf
A.B., Stanford, 1907, A.M., 1921. Buckel Research Fellow at Stanford University, 1920–21; Psychologist at Preston, State Bureau of Research, 1921.

Wildman, Mary Frances, Research Assistant, Food Research Institute, (1234) (PA 1179) 37 Salvatierra
A.B., Stanford, 1922.

Williams, Gwladys Louise, Romanic Languages, (123) 1 Salvatierra
A.B., California, 1921.

Williams, Gladys R., Research Assistant, Food Research Institute, (1234) (PA 1061W) 34 Lasuen

Wright, Conrad Payling, Research Assistant, Food Research Institute, (1234) (PA 1680) Stanford Union
A.B., Oxford, 1920.

TECHNICAL ASSISTANTS

Anderson, Doris Evelyn, Bacteriology, (1234) (PA 933) 11 Salvatierra
A.B., Stanford, 1921.

†Banham, Frank D., Mechanician, Mechanician Shop, (1234) 744 Forest-p

Barrett, Frank C., Anatomy, (1234) (PA 1094W) 359 Emerson-p

Beebe, Katherine N., Secretary, Publicity, (123) 1 Salvatierra
A.B., University of Wisconsin, 1921.

Bell, May Kirk (Mrs.), Secretary, Entomology, (1234) (PA 485W) 532 Homer-p

Bennett, Cassie E. (Mrs.), Secretary, Economics, (34) 152 Kellogg-p

Berger, Alice R., Chemistry, (1234) 73 N. 6th, San Jose
A.B., Stanford, 1908, A.M., 1913.

Berkowitz, Alexander, Secretary and Technical Assistant to Medical Adviser of Men, (1234) (PA 701M) 318 Emerson-p

Bolender, Louise (Mrs.), Secretary, Economics, (12) 152 Kellogg-p
A.B., Stanford, 1920.

†Borrow, Sidney W., Physics, (1234) (PA 1739J) 520 Lowell-p

Boulware, Edna, Secretary, Chemistry, (1234) (PA 403J) 170 Bryant-p

Brophy, Mary Winifred, Stenographer-Clerk, Food Research Institute, (234) (PA 598M) 334 High-p

†Bruce, Walter Johnson, Chemistry, (1234) (PA 342W) 415 Florence-p

Bubb, Louise (Mrs.), Stenographer-Clerk, Food Research Institute, (1) 475 Melville

Burk, Georgina M., Secretary, Roble Gymnasium, (1234) San Juan

Corbaley, Maizie L., Clerical Assistant, Food Research Institute, (1) 555 Everett-p

†Denny, Wallace, Trainer, Encina Gymnasium, (123) (PA 1673M) 110 Waverley-p

Ferris, Roxana Stinchfield (Mrs.), Botany, (1234) (PA 1632M) 667 Melville
A.B., Stanford, 1915.

Gonzales, Steve Leroy, Bacteriology, (1234) (SJ 1297) 149 E. Julian, San Jose-sj

Greene, Helen Hartley, Secretary, Physiology and General Biology, (123) 15 Lasuen
A.B., Stanford, 1923.

Herndon, Maizie Corbaley (Mrs.), Clerical Assistant, Food Research Institute, (23) 555 Everett-p

Huskey, Anne K. (Mrs.), Secretary, Civil Engineering, (1234) (PA 653W) 1376 Emerson

†Ignacio, Frank, Museum, (1234) (PA 1697) 526 Lowell-p

Johnston, Arthur M., Executive Assistant, Food Research Institute, (1234) (PA 522R) 541 Seale-p

Jones, Josephine Williams (Mrs.), Secretary, History, (1234) (PA 933) 510 University-p

Kenney, Grace M., Secretary, Military Science and Tactics, (2) 1752 Emerson-p

King, Douglas Low, Statistical Clerk, Food Research Institute, (3) 745 Cowper-p

Krause, Gus D., Mining and Metallurgy, (12) (PA 1141W) 330 Ramona-p

†Lemos, Frank B., Museum, (1234) 835 Webster-p

†Lemos, John T., Art Gallery, (1234) (PA 1421W) 627 Seale

Lewis, Gwyneth A., Librarian, Education, (1234) 1 Salvatierra

McGinnis, Frank C., Mechanical Engineering, (1234) Oregon and Lewis-p

†McInnis, Peter, Custodian, Encina Gymnasium, (1234) (PA 1829J) 201 Stanford, Mayfield-m

McKendry, Marion, Secretary, Law, (1234) Kingscote

Marx, Alberta, Bacteriology, (1234) (PA 255) 357 Kingsley-p
A.B., Stanford, 1921.

Meyrick, Geraldine, Secretary to Endowment Secretary, (4) 1119 High

†Moffitt, George W., Storekeeper, Encina Gymnasium, (123) (PA 239M) 159 Palo Alto, Mayfield-m

Murray, Katherine, Secretary, Psychology, (1234) (PA 1219J) 1011 Fulton-p

Newnan, Gladys, Bacteriology, (3) Mountain View-mv

Oldroyd, Ida S. (Mrs.), Curator, Geology, (1234) (PA 198) 10 Alvarado

†Oldroyd, Thomas S., Assistant Curator, Geology, (1234) (PA 198) 10 Alvarado

Paul, Nina, Secretary to Dr. J. S. Davis, Food Research Institute, (234) (PA 1364W) 637 Gilman-p

Plant, Catherine M., Secretary, Military Science and Tactics, (34) 159 Kellogg

Purviance, Patti Smith (Mrs.), Secretary, Geology, (1234) 236 Seale-p

†Pyle, M. M., Assistant Mechanician, Mechanician Shop, (123) 235 Amherst-m

Rice, Delight, Statistical Clerk, Food Research Institute, (12) (PA 1991) 167 Webster

†Scott, Thomas Benjamin, Storekeeper, Chemistry, (1234) Mayfield-m

Smith, Alice M. (Mrs.), Secretary, Physics, (1) 600 Lincoln-p

Stuart, Burton, Physics, (1234) Mayfield-m

Sullivan, Willard Edmond, Chemistry, (1) 19 Salvatierra

Tanner, Hilda V. (Mrs.), Secretary, Mining, (1234) (PA 413) 1111 High

†Todd, Edwin Thayer, Mechanical Engineering (Aerodynamic Laboratory), (234) 375 Little Hawthorne-p
A.B., Stanford, 1924.

Wood, F. F., Mining and Metallurgy, (34) Mayfield-m

†Uhlman, Walter, Engineer, Mechanical Engineering, (1234) 305 Emerson-p

ASSISTANTS IN ADMINISTRATION

OFFICE OF THE PRESIDENT

†Barker, Chester Wing, Executive Assistant, Appointment Secretary's Office, (1234) (PA 1632) 666 Kellogg-p
A.B., Stanford, 1918.

Beswick, Katherine, Secretary to Dean of Women, (1234) (PA 964M) 19 Salvatierra
A.B., Stanford, 1923.

Church, Vivienne, Secretary to Dean of Men, (1234) (PA 1466J) 262 Hawthorne-p

Curry, Elizabeth, Appointment Secretary's Office, (1234) (PA 1328W) 353 Addison-p

Davies, Gertrude H. (Mrs.), Secretary to Dr. D. S. Jordan, (1234) Menlo Heights
A.B., Stanford, 1913.

Krogh, Kathryn, Assistant, Appointment Secretary's Office, (34) 951 Forest-p

Owen, Lillian Caroline, Executive Assistant, Appointment Secretary's Office, (1234) (PA 1270M) 25 Alvarado
A.B., Stanford, 1920.

Ramsey, Agnes Craig (Mrs.), Mimeographer, (1234) 20 Lasuen

Stewart, Jane (Mrs.), Assistant, Appointment Secretary's Office, (1234) (PA 1271) 1431 Waverley-p

Terry, Sylvia A. (Mrs.), Assistant, Appointment Secretary's Office, (1) 1810 Bryant-p

Trist, Marian Abigail, Secretary to Alumni Secretary, (1234) 375 Everett-p

OFFICE OF THE REGISTRAR

Huston, Margaret (Mrs.), Secretary to Scholarship Committee, (1234) (PA 644) 21 Salvatierra
Ph.B., University of Chicago, 1903.

Ratliff, Therese (Mrs.), Secretary to Registrar, (12) 406 Ramona
A.B., Stanford, 1915.

Remele, Carol, Secretary to Registrar, (34) 367 Addison-p

Rowland, Mary de, Lower Division, (1234) 1 Salvatierra

Todd, Ruth Bentley (Mrs.), (1234) 375 Little Hawthorne-p

Zimmerli, Elizabeth, (1234) (PA 1490R) 151 Cowper-p

LIBRARY

Alderton, Barbara, Cataloguer, (12) (PA 973J) 915 Channing-p
A.B., Stanford, 1916.

Binkley, Robert Cedric, Reference Librarian, Hoover War Library, (1234) 89 Sequoia
A.B., Stanford, 1922, A.M., 1924.

Boezinger, Lina, Typist, Hoover War Library, (1234) (PA 1289) 431 Channing-p

Broecker, Erika, Cataloguer, (4) 723 Hamilton-p

Cook, Edith, Order Division, (4) Los Altos-la

Corbaley, Pauline G., Order Division, (23) (PA 621J) 555 Everett-p

Davis, Ruth May, Order Division, (1234) (PA 1259W) College Terrace

Duff, Margaret Helen, Assistant, Lane Medical Library, (234) (Randolph 4943) 629 Miramar, SF-sf

Evans, Lucy M., Order Division, (1) 527 Hamilton-p

Fairclough, Katrine Rushton, Assistant, (1234) (PA 1028W) 6 Cabrillo

A.B., Stanford, 1914.

Gieseke, Walter, Loan Desk, (4) 20 Cabrillo

Hall, Elizabeth Pierson, Loan Desk, (234) Los Altos-la

Hitchcock, Jeannette McGrory, Cataloguer, (1234) (PA 1144) 1 Salvatierra

A.B., Stanford, 1915.

Hunt, Faye Josephine, Loan Desk, (1234) (PA 644) 21 Salvatierra

A.B., Stanford, 1922.

Lambert, Violet E., Reference Division, (1234) (PA 408R) O'Connor, Runnymede

Lantzeff, George V., Loan Desk, (124) 311 Middlefield-p

A.B., University of Petrograd, 1918.

Main, Norman F. T., Loan Desk, (34) Stanford Union

A.B., Missouri, 1910; J.D., Stanford, 1924

Meers, Edith, Reference Division, (14) 1710 Waverley-p

Miller, S. Kathryn, Loan Desk, (1) 10 Salvatierra

Owens, William, Loan Desk, (1234) (PA 1884W) 334 Homer-p

Patton, Robert T. (Mrs.), Secretary, Hoover War Library, (4) 436 Waverley-p

Polanska, Zenaida, Cataloguer, Hoover War Library, (1234) (PA 1025) 483 Channing-p

Poochigian, Karop, Loan Desk, (1234) Stanford Union

Potter, Margaret, Cataloguer, Lane Medical Library, (1234) (Oakland 5157) 415 Bellevue, Oakland-o

Ramsey, Anna Frances, Reference Division, (1234) (PA 1021J) 20 Lasuen

A.B., Stanford, 1922.

Richards, Ruth, Secretary to the Librarian, (12) (PA 1025) 1 Salvatierra

A.B., Radcliffe, 1906; B.S., Simmons, 1908.

Rumbeck, Lucille, Secretary to the Librarian, (34) 1204 Emerson-p

Scibird, Ruth, Reference Division, (1234) (PA 1016) 21 Cabrillo

Sheldon, Frances Elizabeth, Law Librarian, (1234) 3 Santa Ynez
A.B., Stanford, 1922.

Sloan, Alice, Order Division, (34) Mountain View-mv

Spaulding, Ruth J., Loan Desk, (1234) (PA 541) 528 Channing-p

Steinmetz, Ruth Lolita, Cataloguer, (123) (PA 463) 1021 Ramona-p
A.B., Stanford, 1922.

Stillson, Grace Elizabeth, Cataloguer, (1234) (PA 543W) 451 Ruthven-p
A.B., Stanford, 1915.

Swartz, J. P., (Mrs.), Order Division, (4) 555 Everett-p

Tum Suden, Linda, Lane Medical Library, (1234) (Fillmore 1781) 3008 Clay, SF-sf

Wedel, Marie D. (Mrs.), Reference Division, (234) 155 Alma-p

Wickes, Florence L., Reference Librarian, Lane Medical Library, (1234) (Park 6152) 519 Webster, SF-sf

Williams, Frances, Secretary, Hoover War Library, (3) Madroño

Zschokke, Elsbeth E., Assistant, Hoover War Library, (1234) (PA 1394J) 526 Forest-p

OFFICE OF THE COMPTROLLER

Accounting Department

(†Erwin, Ernest S., Accountant.)

Barker, Nettie Hindry (Mrs.), Stenographer, (1234) (PA 361J) 633 Hamilton-p
A.B., Stanford, 1897, A.M., 1898.

Belanger, Joseph, Private Exchange Operator, (123) 531 Encina

Ensign, Eleanor, Bookkeeper, (123) (PA 662R) 358 Addison

Gilchrist, Edna P. (Mrs.), Stenographer, (2) 728 Middlefield-p

Hall, Elsie (Mrs.), Private Exchange Operator, (4) Palo Alto

Hill, Beatrice, Endowment Clerk, (1) 3 Santa Ynez

Irvin, D. W., Head Bookkeeper, (1234) (PA 488W) 21 Alvarado

Jensen, Marien, Payroll Clerk, (4) 312 Ramona-p

La Rue, Ethel M., Secretary to Accountant, (4)

McCracken, Flora E., Endowment Clerk, (234) (PA 485M) 549 Cowper-p

Mahoney, Della, Stenographer, (34) 250 Mariposa-p

Meyrick, Geraldine, Secretary to Accountant, (123) (PA 1929J) 1119 High

Montrouil, Peslita, Bookkeeper, (4) East Willow Rd.-p

O'Dea, Mary, Payroll Clerk, (123) (MP 780) Oak Grove Ave., Menlo Park,-mp

†Rathman, G. A., Bookkeeper, (1234) 211 Stanford, College Terrace

Rosneau, David L., Private Exchange Operator, (4) Stanford Union

Ross, Chester, Bookkeeper, (1234) Stanford University

Smith, Gladys B (Mrs.), Cashier, (1234) (PA 245J) Stanford University

†Stone, Charles F., Clerk, Yard Office, (1234) 367 Everett-p

Taff, Marvel B (Mrs.), Private Exchange Operator, (123) (PA 1570W) 435 Forest-p

White, Alma B., Bookkeeper, (1234) (Burl. 224J) 1400 Howard, Burlingame

Stanford University Hospital, San Francisco

Caro, Ruth, Cashier, (1234) (Fillmore 4964) 2309 Sacramento, SF-sf

†Erickson, Einar H., Bookkeeper, (1234) 614 10th Ave., SF-sf

Griffin, H. E., Night Clerk, (1234) (Bayview 2446) 554 16th Ave., SF-sf

Manor, Elva, Payroll Clerk, (1234) (Fillmore 2036) 1920 Post, SF-sf

McMahon, Mary J., Stenographer, (1) 1400 Jones, SF-sf

Meyer, Bertha, Clerk, (1) 307 Alma-p

Meyers, Virginia, Bookkeeper, (1234) (Fillmore 6995) 2408 Clay, SF-sf

Morton, Raymond A., Accountant, (1) 2045 Hyde, SF-sf

Murphy, J. J., (234) (Pacific 2264) 114 St. Roses Ave., SF-sf

Sedgley, J. P., Accountant, (234) (Berkeley 2855) Faculty Club, Berkeley-b

Vance, Madeline T., Stenographer, (234) (Garfield 267) 625 Bush, SF-sf

Corporation Yard

(Keefer, Chauncey Tennent, University Engineer)

†Allen, Everett A., Foreman Plumber, (1234) (MP 954) Stanford Park

Button, Roy, Superintendent of Buildings and Grounds, (4) 477 Everett-p

†Collins, Ralph, Foreman, Garage, (1234) Menlo Park

†Dugan, R. E., Fire Marshal, (1234) (PA 1666) 1241 Roosevelt, Redwood City-rc

†McDonnell, J. W., Foreman Electrician, (1234) 618 Fulton

†Nyquist, I. A., Foreman of Grounds, (1234) (PA 519W) Stanford University

†Schilling, John C., Foreman Carpenter, (1234) 1042 Cowper

†Smith, George B., Foreman Painter, (1234) 253 Homer-p

†Waterman, Edward H., Chief Engineer, Power House, (1234) 567 Lytton-p

Dormitories

Collins, Junior J., Custodian Sequoia Hall, (1234) 3 Sequoia Hall

David, Leon T., Custodian Stanford Union, (1234) (PA 1682) 201 Stanford Union

Gardiner, Gertrude, Matron, Roble Hall, (1234) Roble

Henderson, James Ralph, Manager Men's Dormitories, (1234) (PA 2080) Encina Hall

Spencer, Percival V., Custodian, Branner Hall, (234) (PA 2080) Branner Hall

Foreman Outside Properties

†Frehe, Fred W., (1234) Stanford University

Purchasing Department

Widman, Fred., Purchasing Agent and Storekeeper, (1234) San Francisco

†Hackenberger, William, Assistant Purchasing Agent and Storekeeper, (1234) (PA 519J) Stanford University

Jayne, Verona Price (Mrs.), Secretary to Purchasing Agent, (1234) (PA 459R) 1827 Cowper-p
A.B., Stanford, 1918.

Purchasing Department, Stanford University Hospitals

Widman, Fred., Purchasing Agent and Storekeeper, (1234) San Francisco

Hanley, Rose L., Stenographer, (1234) (Pacific 7570) 2502 McAllister, SF-sf

Suter, Henrietta, Assistant Storekeeper, (1234) (Pacific 7134) 621 11th Ave., SF-sf

University Press

(†Friend, Will A., Superintendent)

†Barnes, A. C., Foreman, Composing Room, (1234) 1029 Parkinson-p

Black, M. Ruth, Clerk, (1) 365 Channing-p

†Borsdamm, John, Foreman, Bindery, (1234) 817 Lincoln-p

Quayle, Persis, (234) (PA 1025) 347 Alma-p

†Smith, C. B., Foreman, Pressroom, (1234) 1211 Fulton-p

OFFICE OF THE TREASURER

†Blodgett, David P., Chief Clerk, (1234) 556 Vernon, Oakland-o

Rose, Jessie E., Stenographer, (1) 2015 8th, Berkeley-b

BOARD OF ATHLETIC CONTROL

†Millar, A. E., Accountant, (1234) 250 Park, Mayfield

Clark, Donald Francis, Secretary to Graduate Manager, (234) (PA 1477J) 7 Alvarado
A.B., Stanford, 1920.

Crittenden, Howard C., Secretary to Graduate Manager, (1) Cowper Court-p

Denny, Wallace, Trainer, Encina Gymnasium, (4) 110 Waverley-p

Goldshar, David, Stenographer, Graduate Manager's Office, (4) Los Altos-la

Keefer, Shirrell, Clerk, Graduate Manager's Office, (234) Stanford Union

McDonald, E. B., Superintendent of Buildings and Grounds, (4) Track House

Melvin, Florence, Secretary to Dr. W. H. Barrow, (1234) (PA 1078) 32 Lasuen
A.B., Washington State College, 1923.

†Moffitt, George W., Manager, Encina Gymnasium Store, (4) Mayfield-m

†Tussing, Ford M., Operations Manager, Graduate Manager's Office, (4) 110 Waverley

DINING HALLS

Handy, Etta H., Director, (1234) (PA 1477J) 7 Alvarado
A.B., Washington State College, 1921.

Ricker, Christine, Assistant Director, (1234) (PA 876) 19 Salvatierra
B.S., Simmons, 1917.

Sproule, Annie B., Encina, (1234) (PA 1815) 22 Lasuen

Thomas, Donald R., Bookkeeper, (1234) (PA 1680, PA 461W) 656 Bryant-p

Towsley, Lillian J. (Mrs.), Cashier, (1234) (PA 461W) 656 Bryant-p

ORGANIZATION

Foundation

STANFORD UNIVERSITY was established under an Act of the California Legislature, approved March 9, 1885. The Founding Grant, executed November 11, 1885, was made public at a meeting of the Board of Trustees held in San Francisco, November 14, 1885. The corner stone of the Inner Quadrangle was laid May 14, 1887, and the institution opened to students October 1, 1891.

Nature, Object, and Purpose of the University

"We, Leland Stanford and Jane Lathrop Stanford, husband and wife, grantors, desiring to promote the public welfare by founding, endowing, and having maintained upon our estate known as the Palo Alto Farm, and situated in the counties of San Mateo and Santa Clara, State of California, United States of America, a university for both sexes, with the colleges, schools, seminaries of learning, mechanical institutes, museums, galleries of art, and all other things necessary and appropriate to a university of high degree, to that end, and for that purpose, do hereby grant," etc.

"And that the trust hereby created may be executed according to the wishes of the grantors and each of them, they do hereby designate the Nature, Object, and Purpose of the Institution hereby founded, to be: Its nature, that of a University, with such seminaries of learning as shall make it of the highest grade, including mechanical institutes, museums, galleries of art, laboratories, and conservatories, together with all things necessary for the study of agriculture in all its branches, and for mechanical training and the studies and exercises directed to the cultivation and enlargement of the mind; Its object, to qualify students for personal success and direct usefulness in life; Its purpose, to promote the public welfare by exercising an influence in behalf of humanity and civilization, teaching the blessings of liberty regulated by law, and inculcating love and reverence for the great principles of government as derived from the inalienable rights of man to life, liberty, and the pursuit of happiness."

Name of the University

"Since the idea of establishing an institution of this kind for the benefit of mankind came directly and largely from our son and only child, Leland, and in the belief that had he been spared to advise as to the

disposition of our estate, he would have desired the devotion of a large portion thereof to this purpose, we will that for all time to come the institution hereby founded shall bear his name, and shall be known as The Leland Stanford Junior University."

Management and Control of the University

The general management and control of the institution is vested in a Board of Trustees, originally numbering twenty-four, and chosen for life. By the Amending Act of May 31, 1899, the number of trustees was reduced to fifteen, with future elections for a term of ten years. The Board of Trustees fills all vacancies.

Powers and Duties of the Trustees

"The Trustees shall have power and it shall be their duty:

"To appoint a president of the University, who shall not be one of their number, and to remove him at will;

"To fix the salaries of the president, professors, and teachers, and to fix them at such rates as will secure to the University the services of men of the very highest attainments;

"To establish and maintain at such University an educational system which will, if followed, fit the graduate for some useful pursuit, and to this end to cause the pupils, as early as may be, to declare the particular calling which in life they may desire to pursue . . . ;

"To prohibit sectarian instruction, but to have taught in the University the immortality of the soul, the existence of an all-wise and benevolent Creator, and that obedience to His laws is the highest duty of man;

"To have taught in the University the right and advantages of association and coöperation;

"To afford equal facilities and give equal advantages in the University to both sexes.

"The Board of Trustees shall annually report all their proceedings to the person who for the time being shall fill the office of Governor of the State of California, and shall accompany such report with a full account of the financial affairs of the institution."

Powers and Duties of the President

"It shall be the duty of the Trustees to give to the President of the University the following powers:

"To prescribe the duties of the professors and teachers; to remove professors and teachers at will; to prescribe and enforce the course of study and the mode and manner of teaching; such other powers as will enable him to control the educational part of the University to such an

extent that he may justly be held responsible for the course of study therein and for the good conduct and capacity of the professors and teachers."

Amendments to the Founding Grant

A clause in the Founding Grant reserved to the grantors the right to alter, amend, or modify the terms and conditions of the grant in important particulars. Under this provision amendments were made by Mrs. Stanford under date of June 1, 1897; May 31, 1899; March 28, 1902; October 3, 1902; and June 1, 1903. These amendments were concerned mainly with matters of detail, but provided also "that the number of women attending the University as students shall at no time ever exceed five hundred."

An amendment to the Constitution of the State of California, adopted November 6, 1900, "permitted, approved, and confirmed all the trusts, estates, terms, and conditions" of the Founding Grant and of all the deeds, conveyances, and other instruments made and delivered before that date, and authorized the Legislature, under certain conditions, to exempt the property of the University from taxation. Article 13 of the State Constitution, as amended November 3, 1914, exempts from taxation the buildings, grounds (not exceeding one hundred acres), equipment, securities, and income, used exclusively for educational purposes, of any educational institution of collegiate grade not conducted for profit.

The University Faculty

"The Trustees shall constitute the president and professors the faculty of the University, and shall prescribe their powers and duties as such."

Under the Articles of Organization, adopted by the Board of Trustees March 31, 1904, the power and authority of the University Faculty is vested in the Academic Council, consisting of the president of the University, the professors and associate professors, the librarian, the registrar, the academic secretary, such assistant professors as have been upon the roll of the faculty for three years, whether as assistant professors or instructors, and such other officers of the University or members of the teaching staff as the Academic Council may, with the assent of the Board of Trustees, determine.

All general University regulations, statutes, and rules as to matters within the province of the faculty, must be initiated in and passed by the Academic Council. The Academic Council has general power and responsibility for the internal administration of the University, subject to express provisions contained in the Articles of Organization respecting the methods of exercising such powers through the President of the

University, the Advisory Board, the Standing Committees, and the Department Faculties.

The Advisory Board consists of nine members of the rank of professor, one from each of the five department groups and four chosen without reference to groups. All executive acts of general importance, such as recommendations for appointments, promotions, and dismissals, for the creation of new departments or chairs, etc., must be submitted by the President to the Advisory Board. The Advisory Board is also privileged to make such recommendations to the President, regarding policy, as it may decide by vote to be expedient, but no recommendations for appointments, promotions, or dismissals may originate with the Advisory Board.

The Executive Committee of the Academic Council consists of the president, vice-president, registrar, academic secretary, and two members from each department group elected by the Academic Council. The Executive Committee appoints the Standing Academic Committees of the Council, with the exception of the Graduate Study Committee which is elected by the Council.

The Standing Administrative Committees of the Council are appointed by the President.

The Department Faculties consist of the professors, associate professors, assistant professors, and instructors in the several departments, but only members of the Academic Council have the right to vote. A Department Faculty has direction of the work of instruction in the department and of the internal administration of the department, subject only to such control as is vested in the Board of Trustees, the President of the University, and the Academic Council. The executive head of the Department Faculty is designated annually by the President with the approval of the Advisory Board and of the Board of Trustees.

Departments

The work of the University embraces the following departments, divided into groups for the purpose of elections to the Advisory Board and Executive Committee, as indicated:

(I) Classical Literature, English, Germanic Languages, Romanic Languages; (II) Anatomy, Bacteriology and Experimental Pathology, Botany, Medicine, Physiology, Zoology; (III) Chemistry, Geology, Mathematics, Physics, Psychology; (IV) Economics, Education, History, Law, Philosophy, Political Science; (V) Applied Mathematics, Civil Engineering, Electrical Engineering, Mechanical Engineering, Military Science and Tactics, Mining and Metallurgy.

The Hopkins Marine Station, located at Pacific Grove, on the Bay of Monterey, is a branch of the biological work of the University.

The Food Research Institute was organized in 1921, under grant from the Carnegie Corporation, for the purpose of studying the production, distribution, and consumption of food. The Board of Directors consists of Dr. Carl Lucas Alsberg, Dr. Joseph Stancliffe Davis, and Dr. Alonzo Englebert Taylor. The Advisory Committee comprises Mr. Herbert Hoover, Dr. John C. Merriam, Mr. Julius Barnes, Mr. A. R. Howard, Dr. William M. Jardine, Mr. George C. Roeding, Dean Sarah L. Arnold, the President of the Carnegie Corporation, and the President of Stanford University.

The University Year

The University year begins the first of October and is continuous throughout four quarters of approximately eleven weeks each. Any three quarters constitute an academic year. The summer quarter differs from other quarters only as the courses of study in the various departments may be contracted or expanded or specialized to meet the needs of a particular constituency; or, as in Physiology and Zoology, where the summer program is transferred to the Hopkins Marine Station at Pacific Grove. The emphasis of the summer quarter is placed on advanced and graduate work.

Location

The seat of the University, except for the advanced and clinical work in Medicine, is at Stanford University, in the Santa Clara Valley, thirty miles southeast of San Francisco, on the Coast Division of the Southern Pacific Railway. The campus contains about fifteen hundred acres and is part of the University Trust of over seven thousand acres, partly level and partly rising into the foothills of the Santa Cruz Range. The Bay of San Francisco is about three miles east of the University grounds. Across the bay the Mount Diablo Range rises to a height of over four thousand feet, the Lick Observatory crowning Mount Hamilton, the highest of the range. The Santa Clara Valley is one of the most attractive portions of the State in fertility, in natural beauty, and in the excellence of its climate. In winter the mercury rarely falls below 30 degrees, with an average midday temperature of about 55 degrees. In summer the midday temperature ranges between 60 degrees and 80 degrees, with occasional higher and lower numbers, the average being about 70 degrees; the nights are cool, the usual range being from 50 degrees to 58 degrees. The rainfall, normally about eighteen inches, is chiefly confined to the months from December to April, inclusive.

Buildings

The architectural design of Stanford University, with the detailed plan of the inner quadrangle group, Encina Hall, and the first three engineering buildings, was the work of Mr. Charles Allerton Coolidge, of the firm of Shepley, Rutan, and Coolidge, Boston, Massachusetts. Later architects have followed with modifications the original plan, the distinctive features being preserved.

The central group of buildings, constituting two quadrangles, the one surrounding the other, is an adaptation of the Mission Architecture, and reproduces on an imposing scale the open arches, long colonnades, and red-tile roofing of the old Spanish Missions of California. The Inner Quadrangle consists of twelve one-story buildings and the Memorial Church, connected by a continuous open arcade and surrounding a court 586 feet long by 246 feet wide, or three and a quarter acres. The buildings are buff sandstone, somewhat varied in color, the stonework of broken ashlar, with rough rock-face, and the roofs covered with red tile.

The fourteen buildings of the Outer Quadrangle are constructed of the same material and in the same general style as the Inner Quadrangle, with open arcades on the outside. The extreme length of the Outer Quadrangle is 894 feet.

The Leland Stanford Junior Museum is situated a quarter of a mile from the Quadrangles, on the west side of the Palo Alto avenue.

The Chemistry Building, located between the Quadrangle and the Museum, consists of two separate structures—the main building and the Physical Chemistry Laboratory.

South of the central Quadrangles are located the workshops of the Engineering departments, experimental laboratories, etc.

Encina, Toyon, and Branner Halls, situated east of the Quadrangles, and Sequoia Hall, west of the Quadrangles, are dormitories for men. Encina will accommodate four hundred and fifty students; Toyon and Branner each one hundred and fifty; and Sequoia one hundred. The extension of the Stanford Union, completed in 1922, has dormitory accommodations for one hundred men. Roble Hall, situated southwest of the Quadrangles, near Lagunita, is the dormitory for women, and will accommodate two hundred and twenty-six students.

Encina Gymnasium, for men, is a brick building with a frontage of 330 feet, situated north of Encina Hall and near the athletic grounds. There are two main divisions separated by a small court. The drill hall is 120 x 65 feet, with hard-maple floor. There are rooms for special exercises, shower and locker rooms in each wing, ample offices and space for storage and laundry. An outdoor swimming pool 100 x 40 feet

is available to all undergraduate men, and to graduate men upon payment of the prescribed gymnasium fees.

The Basketball Pavilion, completed in 1922, affords ample quarters for indoor games, with a gallery seating capacity of two thousand.

The Stadium, completed in 1921, is a bowl-shaped structure built on an earth embankment and has a seating capacity of 60,000. The field includes a quarter-mile track and 220-yard straightaway.

Roble Gymnasium, for women, is a frame building equipped with apparatus for physical education. An outdoor swimming pool, 75 x 40 feet, is located near the gymnasium. In connection with the pool there are eighteen shower rooms, seventy-two dressing rooms, a laundry, and a sterilizing plant to care for the swimming suits, with a room for their drying.

The Thomas Welton Stanford Art Gallery, the first building of the second quadrangle group, contains four galleries designed for the exhibition of paintings and other works of art.

The Library Building is the central unit in the second quadrangle group. The ground floor provides a reading room for books set apart for collateral reading, a department of public documents, and administrative workrooms. On the main floor are the delivery hall, the reference and reading rooms, a browsing room, a periodical room, the card catalogue, and the administrative rooms; on the mezzanine and top floors, a large study room and smaller rooms of varying sizes for seminar and special research work.

The grounds immediately about the University, constituting the campus proper, have been reserved in part for experimental and ornamental purposes; in part as residence sites for members of the faculty and others who may desire to live on the University campus.

The main buildings of the School of Medicine in San Francisco occupy four fifty-vara lots bounded by Clay, Sacramento, and Webster streets. They consist of the Clinical and Laboratory Building, including Lane Hall and Lane Hospital—a modern building in brick and stone, with a capacity of one hundred and eighty beds—and the Stanford University Hospital, a concrete structure with a capacity of one hundred and thirty beds. The Lane Medical Library is situated on the corner of Sacramento and Webster streets, opposite the Clinical and Laboratory Building, and the Stanford School of Nursing on Clay Street, opposite the Hospitals. The Library is a fire-proof structure of Colusa sandstone, three and a half stories high, with steel stacks accommodating 60,000 volumes.

The Hopkins Marine Station is located on Almeja Point, Pacific

Grove. A concrete building 40 x 80 feet, three stories in height, provides the necessary laboratories, aquarium, storerooms, library, photographic dark rooms, etc.

Clubhouses

The Stanford Union, a clubhouse for men, projected by Herbert C. Hoover of the class of 1895, and built by contributions from students, alumni, faculty, trustees, and friends of the University, is in charge of a Board of Trustees made up of three faculty members, three alumni, and three undergraduates, together with the Comptroller, the Dean of Men, and the President of the Associated Students. An additional building, consisting of dining halls and dormitory accommodations for one hundred men, was completed in 1922.

The Women's Clubhouse provides a social center for the women of the University, with meeting rooms for various University organizations.

The two Union buildings and the Women's Clubhouse are connected by means of cloistered arcades surrounding a court a half-acre in extent, with a fountain as the central feature and diversified by trees, grass, and a variety of flowering shrubs and plants.

ADMISSION TO THE UNIVERSITY

CANDIDATES must present satisfactory recommendations as to personal character and must offer approved credentials as indicated below. Application forms for candidates from other colleges and universities, and recommendation blanks for candidates from preparatory schools, may be obtained on application to the Registrar. For matriculation for a particular quarter it is important that applications and complete credentials be presented on or before the dates named below.

Requirements for Admission

GRADUATE STANDING

The requirements for graduate standing are fulfilled by graduates of colleges and universities of recognized standing, whose credentials evidence ability and promise and who expect to become candidates for advanced degrees or for the high school teacher's certificate; or, who purpose to pursue regular advanced, professional, or research courses.

UNDERGRADUATE STANDING

Scholarship Qualifications.—Fulfillment of minimum requirements implies the completion of a regular four years' high school course or its equivalent. The only prescribed subject is English, but applicants will find it to their advantage to anticipate, in the high school, certain lower division requirements of the University and to offer the following as part of the fifteen units required:

Four units in English;

Three units in a foreign language (or *two units* in each of two foreign languages);

One unit in either Botany, or Physiology, or Zoology, or General Science;

One unit in either Physics or Chemistry;

One unit in American History (or in American History and Civics).

If looking toward engineering, *one unit* in plane geometry, *two units* in algebra, *one-half unit* in trigonometry, and *one unit* in mechanical drawing.

The maximum entrance credit which will be accepted in typewriting is *one unit;* in physical education or military training (or both combined), *one unit.* No unit values are attached to penmanship and spelling.

The scholarship requirements for first-year undergraduate standing are fulfilled *without examination* by candidates who have been duly

graduated from approved preparatory schools with recommending (certificate) grades in subjects aggregating fifteen units (including at least two units in English) and who are also recommended on the basis of character and seriousness of purpose. In schools which do not distinguish between a passing and a recommending (certificate) standard no subject will be credited unless the grade be at least five per cent higher than the lowest passing grade. (The first part of a continued subject, even if below the recommending standard, may be credited provided the last part is of recommending grade and the average of the two parts is of recommending grade. Acceptance of credentials may also be made to depend upon the record of the last two years, provided all units of the last two years are of recommending grade, with an average of from five to ten per cent higher than the recommending grade; and provided that not more than three of the units in the first two years are below recommending grade.)

Holders of New York Regents' Diplomas granted *with credit,* and candidates from foreign countries, who present credentials equivalent to those named and whose command of written and spoken English shall be deemed adequate for purposes of college study, may also be placed in this category. (Regents' passcards may also be accepted for the subjects covered, provided they show a grade at least ten per cent above the lowest passing grade.)

The scholarship requirements for first-year undergraduate standing are fulfilled *on examination* by duly recommended candidates, whether or not graduates of approved preparatory schools, who have passed (1) the ordinary examinations of the College Entrance Examination Board in subjects (including English) aggregating fifteen units; or (2) the comprehensive examinations in four subjects (under the so-called new plan). Partial fulfillment of requirements without examination (that is, through graduation from approved schools and recommendation on grounds of fitness, but with less than fifteen units of recommending grade, may be supplemented by examination, through the College Entrance Examination Board, in the subjects necessary to make up the required fifteen units. Question papers are prepared by the College Entrance Examination Board in a limited number of subjects only. Subjects not on the Board's list may be offered for entrance only upon graduation and recommendation from approved schools as provided above.

Candidates from other colleges and universities, in addition to fulfilling requirements for first-year standing, must present transfer papers showing satisfactory records at the institutions attended.

Personal Qualifications.—In addition to scholarship and seriousness of purpose, account is taken of exceptional qualifications of any kind, including force of character, qualities of leadership, influence exerted among schoolmates and associates, and the like.

Supplementary Examination ('Intelligence' Test).—A supplementary 'intelligence' examination is taken by all candidates for undergraduate standing. In June the examination will be given in numerous centers in California, and outside the state wherever satisfactory arrangements for conducting the examination can be made. The examination will also be given at the University during the week preceding the October, January, and April matriculation dates.

Admission of Men

There is no restriction upon the number of matriculants in graduate standing, nor in advanced standing where credentials cover full entrance requirements and 80 or more units of college work. Approved candidates in this group are assured of admission at the beginning of any quarter.

The number of matriculants in first-year undergraduate standing, together with those in advanced standing with less than 80 units of college work, is limited to 450 for the autumn quarter and 50 each for the two succeeding quarters. For the present no limit (below 450) is placed upon summer matriculants, but matriculation for the summer quarter does not necessarily insure registration for succeeding quarters; and if more than 50 summer matriculants re-register for the autumn quarter the number allotted to the autumn quarter will be correspondingly reduced.

The first selection of candidates within the limited group will be made immediately after August 1st, December 20th, March 1st, and June 1st, respectively, for the next succeeding quarter. Of the candidates to be selected in August approximately sixty-five per cent will be chosen from those who, besides fulfilling scholarship and personal qualification tests, have also obtained satisfactory scores in the supplementary 'intelligence' examination. Approximately twenty-five per cent will be provisionally chosen from those who fulfill scholarship and personal qualification tests but who, because of remoteness from examination centers or for other reasons satisfactory to the Committee on Admission, have failed to take the supplementary 'intelligence' examination. Candidates selected in this manner may be denied admission if the score obtained in the supplementary 'intelligence' examination to be given at the University just before the October matriculation date is lower than 50. Approxi-

mately ten per cent may be selected from duly recommended high school graduates deficient in not more than three recommending units but whose scores in the supplementary 'intelligence' examination do not fall below 70. Candidates of considerable maturity, twenty-one years of age or older, who do not fulfill the scholarship requirements for undergraduate standing but whose incomplete preparation has been supplemented by practical training and experience of distinct educative value, may also be included in the ten per cent category. Such candidates, if admitted, are special students and not candidates for a degree, except as noted on page 102.

Other things being equal, preference will be given to approved candidates passing the College Entrance Board examinations with an average grade of 75 or above and, until January 1934, to sons of faculty and alumni of the University.

A certain number of places (for October 1924, not to exceed 35) are held open until after the September examinations. Selection for these places and for others not filled on the August date will be made in the same manner as in August.

For places in the limited group for the January and April matriculation the same general plan will be followed as far as may be found practicable by the Committee on Admission.

In considering the credentials of Upper Division candidates (unlimited group), due weight will be given to the supplementary 'intelligence' examination, and matriculation may be denied to any candidate whose score is lower than 50.

Admission of Women

The Founding Grant of the University, as amended May 31, 1899, directs "that the number of women attending the University as students shall at no time ever exceed five hundred."

The same scholarship and personal qualification standards and requirements apply as in the case of men. High scores in the supplementary 'intelligence' examination will be given due weight, and matriculation may be denied to any candidate whose score in this examination falls below 50.

Under the 500 limit the number of places open to new women students in October is approximately 140. Of these, 35 are provisionally assigned to approved candidates for graduate standing; 105 to approved candidates for undergraduate standing. Approximately 35 places assigned to new undergraduate women will be filled on the basis of priority of application under the regulations in force prior to February 21, 1921, and until

such applications are exhausted. (No applications received later than February 21, 1921, will be considered for this list.) Proportional assignments will be made for the winter and spring quarters.

The selection of undergraduate candidates will be made immediately after July 20th, November 15th, March 1st, and June 1st, respectively, for the next succeeding quarter. Outside of the priority list and the list of daughters of the alumni and of the academic staff, selection will be made on the basis of superior fitness; preference being given, other things being equal, to candidates who pass the examinations of the College Entrance Examination Board (old plan or new plan) with an average grade of 75 or above, and from January 1927 to January 1934, to faculty and alumni daughters whose qualifications place them among the first one hundred and fifty candidates chosen on the basis of superior fitness, in any list where one hundred are to be selected (proportional numbers for larger or smaller lists).

The selection of graduate candidates will be made immediately after August 1st, November 15th, March 1st, and June 1st, respectively, on the basis of superior fitness.

Women once admitted to the University will be allowed to continue without further application, as long as scholarship and conduct are satisfactory, and provided they present themselves for registration at the beginning of each quarter on the regularly appointed day; but special restrictions apply to registration for the summer quarter and to summer matriculants desiring to re-register for succeeding quarters. Places will not be held for women students after the regular registration day, except by permission of the Committee on Registration, granted in advance.

The regular lists for the summer quarter will be made up immediately after June 1st, but it is not expected that the number of women in attendance will reach the 500 limit, and all candidates who fulfill requirements are, for the present, assured of admission if present on the regular registration day. Matriculation for the summer quarter, however, does not insure registration for any succeeding quarter. Summer matriculants will be considered in the same category as other applicants, and will receive only the advantage which inheres in early application (before February 21, 1921) or in superior credentials.

Entrance Units

An entrance unit represents a year's study in any subject in a secondary school, constituting approximately one quarter of a full year's work. In assigning credit values two laboratory, drawing, or practice periods, not requiring additional study or preparation, are regarded as the equivalent

of one recitation period. The length of the school year is assumed to be from thirty-six to forty weeks.

Approved Preparatory Schools

Approved Preparatory Schools are schools maintaining full four-year courses of high school work and accredited (1) by the New England College Entrance Certificate Board, by The North Central Association of Colleges and Secondary Schools, by the Association of Colleges and Secondary Schools of the Southern States, by colleges and universities of recognized standing; or (2) upon inspection undertaken or authorized by the University.

The University records of first-year students will be considered as additional evidence of the standing of preparatory schools and of their good faith and success in meeting the requirements of the University; and such evidence will be made use of in determining as to the continuance of accrediting relations.

Entrance Examinations

In June, beginning the third Monday of the month, entrance examinations conducted by the College Entrance Examination Board are held simultaneously in all parts of the United States (in California at Stanford, Berkeley, Los Angeles, and other places), and in various foreign countries. In September, beginning the third Monday of the month, comprehensive examinations only are held at the University. (The September question papers are prepared by the College Entrance Examination Board, but the answer books are read and graded by the University.) These examinations may be taken either under the four-subject plan (new plan), or toward the completion of the fifteen units ordinarily required of those entering on examination (old plan), or to supplement incomplete recommendation from approved schools.

The examination fee in September is $5 and must be paid in advance. Applications, with satisfactory credentials, must be presented not later than the second Monday of the month.

The application for examination in June should be addressed to the College Entrance Examination Board, 431 West 117th Street, New York, N. Y. It should be made upon a blank form to be obtained from the Secretary of the Board upon request.

If the application is received sufficiently early the examination fee will be $9 for candidates examined in the United States and Canada, and $20 for candidates examined outside of the United States and Canada. The fee, which should accompany the application, should be remitted by postal order, express order, or draft on New York, to the order of the College Entrance Examination Board.

The applications and fees of candidates who wish to be examined outside of the United States and Canada should reach the Secretary of the Board at least six weeks in advance of the first day of the examinations (that is, for 1924, on or before May 5, 1924).

The applications and fees of candidates who wish to be examined in the United States at points west of the Mississippi River, or in Canada, should be received at least four weeks in advance of the first day of the examinations (that is, for 1924, on or before May 19, 1924).

When the candidate has failed to obtain the required blank form of application for examination, the usual examination fee will be accepted if the fee arrive not later than the specified date and accompanied by a memorandum containing the name and address of the candidate, the exact examination center selected, and a list of all the subjects in which he may have occasion to take the Board examinations.

Applications received later than the dates named will be accepted when it is possible to arrange for the admission of the candidates concerned, but only upon the payment of an additional fee.

A list of the places at which examinations are to be held by the Board is published about March 1st of each year. Requests that the examinations be held at particular points should be transmitted to the Secretary of the Board not later than February 1st to receive proper consideration. The designation of the center to which the candidate will go for the examination is regarded as an indispensable part of the candidate's application for examination.

In these examinations the University has designated 60 as the lowest passing grade.

The examination questions set by the Board are published in yearly volumes by Ginn & Co., Boston.

Detailed definitions of the requirements in all examination subjects are given in a circular published annually by the Board. The edition published December 1, 1923, is designated as Document No. 111. Upon request a single copy will be sent to any teacher without charge. In general a charge of twenty cents, which may be remitted in postage, is made. (Address Secretary, College Entrance Examination Board, 431 West 117th Street, New York, N. Y.)

COMPREHENSIVE EXAMINATIONS

Applicants who present evidence of satisfactory preparatory work covering not less than fifteen entrance units, may fulfill scholarship requirements by passing the comprehensive (new plan) examinations in four subjects, determined as follows:

(1) English (three units)

(2) A foreign language, selected by the candidate (two, three or four units)

(3) Either Mathematics or Chemistry or Physics, selected by the candidate (one, three or more units)

(4) A fourth subject, selected by the candidate, from the subjects in which examinations are held.

These four examinations must be taken at one time. At least two examinations must cover more than two entrance units each. In each subject selected the examination must cover all the units counted by the candidate toward the required fifteen units of preparatory work.

Comprehensive examinations are offered in the following subjects only: Biology (one unit); Botany (one unit); Chemistry (one unit); English (three units); French (two, three, or four units); German (two, three, or four units); Greek (two or three units); History (Ancient, European, English, American with or without Civil Government —one or two divisions, one unit in each); Italian (two, three, or four units); Latin (two, three, or four units); Mathematics (three or more units); Physics (one unit); Spanish (two, three, or four units); Zoology (one unit). If taken as an old-plan examination Mathematics may cover any one or more of the following divisions: elementary algebra, plane geometry, solid geometry, trigonometry, advanced algebra.

The examination schedule for September 1924 is as follows:

Monday, September 15—English, 9 a. m.; French, 2 p. m.

Tuesday, September 16—Latin, 9 a. m.; History, 2 p. m.

Wednesday, September 17—Elementary Mathematics, 9 a. m.; German, Italian, Spanish, 2 p. m.

Thursday, September 18—Botany, Chemistry, Physics, Zoology, 9 a. m.; Greek, Advanced Mathematics, 2 p. m.

Friday, September 19—Biology, 9 a. m.

Entrance Subjects

The standard of preparation is the four-year high school course. The proper coördination of high school subjects for the individual pupil is regarded as primarily a problem for the secondary school; the University is prepared to recognize for entrance credit any subject having an established place in the secondary school curriculum where adequate instruction is given and where the subject is pursued to satisfactory results.

All Lower Division students (except students coming from other institutions with satisfactory credit in a college composition course) will be required to satisfy the University standard in English Composi-

tion. This may be done by passing a special matriculation test given during matriculation week. The examination will test the candidate's practical knowledge of spelling, punctuation, and sentence structure, and his ability to think consecutively on a simple subject. The subjects which are set at the time of the examination will be drawn for the most part from the candidate's own experiences.

A student who does not pass will be required to register in English A at once (unless, by reason of numbers, such registration is postponed to a later quarter), and remain in the course until his work is of passing grade.

Definition of High School Subjects

The definition of high school subjects given by the College Entrance Examination Board (Document No. 111 issued by the Board) will serve as a standard, and also, for California schools, the outline prepared by the University of California. The following suggestions and explanations will indicate the attitude of the University in judging entrance credentials, but no attempt is made to enumerate all the subjects which may be properly included in the high school curriculum:

1. English.—The primary aim of instruction in English Composition in the secondary schools is clearness. Based upon grammatical correctness, which is the peculiar goal of elementary English Composition, this is the quality by which the Stanford matriculation test is rated. To attain these aims there should be a definite coöperation of the entire staff of the school.

The work in English Composition should be given at least two recitations a week throughout the entire high school course. The greater part of the student's time outside of class should be devoted to practice in writing, but it is recommended that some attention be also paid to instruction in the fundamental principles of formal rhetoric.

The work in English Literature should be given an average of at least three recitations a week throughout the four years of the preparatory course. It should be conducted so as to give the student an appreciative understanding of the books selected either for general or for more intensive study, as well as a knowledge of their place in the history of English Literature, together with an ability to read aloud intelligently both prose and verse.

Preparation in the History of English Literature should consist in a brief outline for making clear the character and the tendencies of the more important literary epochs and for associating the chief books and authors in their proper periods.

2. Mathematics.—The work in Mathematics is usually distributed as indicated by the following unit values: algebra (1 to 2), plane geometry (1), solid geometry (½), trigonometry (½). Additional work may be offered in algebra and plane analytical geometry. The solution of numerous original problems and exercises is assumed throughout the course.

3. The Sciences.—In Botany, Chemistry, General Science, Hygiene, Physics, Physiology, and Zoology a full year's work in each is expected, comprising, preferably, two recitation periods and three double laboratory periods per week. Accurate notes of the laboratory work should be kept. Any two of the biological sciences (botany, physiology, zoology) may be combined into a continuous year's course. Astronomy may be offered as a half-unit course.

Students who receive entrance credit in Chemistry and who wish to continue the subject in the University, will be admitted at once to Laboratory Course 4 and will be required to begin Lecture Course 1.

In Physiology the textbook work should be accompanied by experiment (dissection of animals and organs) and by a certain amount of study of the tissues with the microscope.

In Botany the main thing is that the work shall be of a practical nature—the study mostly of specimens and not of books. A study of the growth and development of the forms selected is of the highest importance, and should be made a prominent feature in the work. If possible the pupil should be allowed the use of a compound microscope, but when this is not practicable, microscopic demonstrations by the instructor are indispensable.

In Hygiene the work should include adequate instruction in personal hygiene, the hygiene of occupation and, in matters of sanitation and public health, the relation of the citizen to the state. Three periods per week of physical training, with three periods in experimental laboratory work in Hygiene, and two recitations per week on Public Health, or an equivalent amount of work distributed over a longer period, will cover the requirements for one unit of credit.

4. History and Allied Subjects.—History should be offered in full-unit courses covering respectively the following divisions: (*a*) Ancient, (*b*) Medieval and Modern, (*c*) English, (*d*) American. A full unit course in European History, including that of England with Continental Europe, will be accepted. Civics may be offered as a part of American History or as an additional half-unit course. (A two-year course covering the first three subjects—*a, b, c*—will be accepted.) Biblical History and Literature and Economics may each be offered as a half-unit or a unit course.

In the History subjects, in addition to the textbook preparation, the following exercises are recommended: Supplementary reading, including the use of original material where possible, with notes and digests of reading; abstracts or analyses of specified chapters, both of the textbook and supplementary reading; outlines of subjects, gathering material from all available sources; map drawing from printed data or comparison of existing maps, showing movements of exploration, migration, or conquest, territorial changes, or social phenomena. Such work should be regarded as a means rather than the end of historical study and, in every instance, should be adapted in character and amount to the stage of advancement of the class and of the individual pupil. As the pupil progresses in his study, more advanced work may well be required in the form of historical composition and of note-taking in the class from talks by the teacher or reports of fellow-pupils.

5–6. Spanish and French.—The elementary study of the languages, covering two years of daily recitations, should lay stress on the following points: (1) An accurate knowledge of the forms of the languages; (2) the elements of syntax; (3) the ability to turn easy English prose into French or Spanish; (4) the ability to translate ordinary French or Spanish into idiomatic English; (5) the ability to pronounce French and Spanish correctly.

(Students who have had one year of French in the high school and present one unit of credit for entrance into the University may take Course A2. Those who have had one year of Spanish in the high school and present one unit of credit for entrance may take Course B2. Those who have had two years of French or Spanish in the high school, and present two units of credit for entrance, may take second-year work in the University.)

The intermediate requirements are intended to represent a third year of daily recitations. The specific demands are: (1) A thorough knowledge of modern French and Spanish syntax; (2) the ability to turn at sight ordinary modern French and Spanish into idiomatic English; (3) the ability to translate connected English prose of moderate difficulty into French or Spanish; (4) the ability to write French or Spanish from dictation; (5) some facility in speaking the languages.

(Students who have had three years of French in the high school, and present three units of credit for entrance into the University, will ordinarily take Course A22. Courses A24 and A30 are also open to them. Students who have had three years of Spanish in high school, and present three units of credit for entrance into the University, will ordinarily take Course B22. Course B30 is also open to them.)

The advanced requirements will occupy a fourth year of daily recitations.

At the end of this course the student should be able :(1) To read at sight any standard author not earlier than the seventeenth century; (2) to write in French or Spanish a short essay on some simple subject connected with the works read; (3) to translate correctly a passage of modern English prose; (4) to carry on a simple conversation in French or Spanish; (5) to follow a lecture in French or Spanish.

The reading in the elementary course should cover from four hundred to six hundred duodecimo pages; in the intermediate course a similar amount of prose and verse should be read, a portion to be in the dramatic form; in the advanced course the same quantity of prose and verse should be selected from standard authors not earlier than the seventeenth century; and these should be read with reference to their literary value.

The practice of writing compositions consisting of reproductions or paraphrases of the matter read, should be begun in the intermediate course and followed by short themes along similar lines in the advanced course.

7. German.—Elementary German represents the work of two high school years with daily recitations. It should give the following preparation: the ability to read at sight German prose and verse, easy of understanding, combined with an accurate knowledge of the most important elements of grammar (especially embracing inflections, word-order, and the essentials of syntax); to appreciate the force of prefixes and suffixes; to express in correct German simple ideas concerning familiar things; and to recognize German words and simple sentences when spoken. Careful attention should be given to pronunciation and accentuation.

The amount of work to be accomplished in the first year is approximately what is contained in a beginner's book such as Zinnecker's "Deutsch für Anfänger," with some additional reading. The reading of the second year should be for the most part graded modern German from 200 to 300 pages. German should be the language of the classroom, the instruction in conversation, composition, and grammar being based largely on the reading text.

Intermediate German represents a third year of daily recitations designed to extend and strengthen the pupil's personal command of the language as well as his knowledge of word formation and syntax. Here again the reading matter should be, in large measure, the center of the instruction, and some attention should be paid to literary appreciation.

Advanced German represents a fourth year of daily recitations.

Besides rounding out the pupil's knowledge of grammar and increasing his facility in speaking and writing, this course should make considerable addition to his passive vocabulary and develop his literary appreciation. It would be advisable to choose most of the reading from the works of recent or contemporary writers, but some work or works of Lessing, Goethe, and Schiller should be studied intensively, while others might be assigned for outside reading and report.

8. Latin.—The reading required in elementary and advanced Latin (4 units) without regard to the prescription of particular authors and works, is not less *in amount* than Caesar, Gallic War, I–IV; Cicero, the orations against Catiline, for the Manilian Law, and for Archias; Virgil, Aeneid, I–VI. An equivalent amount of reading from authors other than those specified above may be substituted. The following are suggested: Caesar, Civil War; Eutropius; Nepos; Terence, Phormio; Cicero, Letters; Sallust; Virgil, Bucolics and Georgics; Ovid, Metamorphoses.

Exercises in translation at sight should begin in school with the first lessons in which Latin sentences of any length occur, and should continue throughout the course with sufficient frequency to insure correct methods of work on the part of the student. From the outset particular attention should be given to developing the ability to take in the meaning of each word (and so, gradually, of the whole sentence) as it stands; the sentence should be read and understood in the order of the original, with full appreciation of the force of each work as it comes, as far as this can be known or inferred from that which has preceded and from the form and position of the word itself. The habit of reading in this way should be encouraged and cultivated as the best preparation for all the translating that the student has to do. No translation, however, should be a mechanical metaphrase. Nor should it be a mere, loose paraphrase. The full meaning of the passage to be translated, gathered in the way described above, should finally be expressed in clear and natural English.

The school work in Latin should include much reading aloud and writing from dictation with translation from the teacher's reading. Learning suitable passages by heart is also very useful and should be practiced.

The work in composition should give the student a better understanding of the Latin he is reading at the time, if it is prose, and greater facility in reading. It is desirable, however, that there should be systematic and regular work in composition during the time in which poetry is read as well. For this work the prose authors already studied should be used as models.

9. Greek.—In Elementary Greek (2 units) the following requirements should be covered: Grammar, the inflections and the essential points of syntax; Xenophon's Anabasis, Books I-IV, or an equivalent; prose composition. Every pupil is expected to be able to read Greek aloud without stumbling.

In Advanced Greek (1 unit): Homer, Iliad, Books I–III, or an equivalent; advanced prose composition. The pupil should have a good acquaintance with the forms and syntax of Homer, and be able to scan any given passage exactly and to read it rhythmically. In the writing of Greek the pupil should have a year's training beyond that required in Elementary Greek.

10. Drawing and Applied Art.—In each of the drawing subjects (Freehand, Mechanical, and Architectural) a unit of credit represents daily double periods for a year or single periods for two years.

In Freehand Drawing approximately two-thirds of the time should be given to representation and one-third to decorative and constructive design. *Representation* should include: Object drawing, boxes, books, bowls, vegetables, machine parts, drawn in various positions with attention to perspective facts in line and to light and shade also; plant forms, seed pods, shells, insects, animals, and simple landscape, drawn in line, in light and shade, and in color; composition, exercises in arrangement and adaptation of pictorial subjects into good composition, using both rhythmic line arrangement and harmonious color. The style of drawing should be direct, facile, and effective, adapted to the thing drawn, with refinement and vigor, each in its proper place. The pupil should be equally familiar with the use of pencil and charcoal or brush. *Design* should include: (1) Exercises in space filling, borders, and all-over patterns with use of geometric and organic forms; (2) principles of constructive and decorative design applied to simple objects, such as, in printing, a title-page or program; in textiles, a stencil or embroidery design for a curtain or table-scarf; in wood, working drawings for a chair, table, clock-case, book-rack, etc.; in metal, cabinet hardware and lighting fixtures, etc. Talks supplemented by photographs of the best paintings and architecture, and talks upon taste in home furnishing and appointments, with visits to worthy examples, should supplement the course with a view to developing an enlightened taste in art.

In Mechanical Drawing the pupil is expected to acquire neatness and accuracy in the use of drawing instruments. This course should include practice in line work, lettering, machine or architectural working drawings, and tracing. Recognition, commensurate with the length of the course and the degree of proficiency attained in the use of instruments,

will be given, however, to courses consisting of line work, lettering, and the construction of geometric figures.

11. Shopwork.—In this two things are expected: first, a knowledge of the materials and tools used, with a thorough understanding of the principles involved in the operation performed; second, manual dexterity, as evidenced by neatness, accuracy, and dispatch in the execution of a given piece of work.

Woodworking (½ unit) demands the ability to recognize the common varieties of wood, along with some knowledge of their physical properties, in the way of workable substance, strength, toughness, hardness, etc. The pupil should be familiar with the uses of the principal hand tools of carpentry; with the operation of lathe, jig-, band-, and circular-saws, and planing machines; and be able to make the ordinary kinds of joints and splices.

Forge Work (½ units) demands an elementary knowledge of the properties of wrought iron and steel and of the proper heats at which to work them. Besides the nature and uses of all the ordinary blacksmithing tools, the management of forge and fire should be known. The pupil should be able to execute all of the common forging processes, including the various forms of welds in iron and steel, and is also expected to understand hardening, tempering, and annealing.

Foundry Work (½ unit) demands a knowledge (1) of the tools and processes used in the ordinary forms of green sand molding and core work; (2) of the properties of cast iron, with experience in pouring the metal as well as in molding. And the pupil should have had besides practice in charging and operating the cupola.

Machine Shop Work (½ to 1 unit) demands a knowledge of the tools and processes used in the working of iron, steel, and brass. The pupil should be able to execute all forms of vise-work, such as chipping, filing, scraping, fitting, and finishing. He should be familiar, through experience in operation, with the simpler forms of machine tools, such as the lathe, drilling machine, planer, shaper, and milling machine.

12–15. Agriculture, Horticulture, Domestic Science, Commercial Subjects, Music.—The outline prepared by the University of California is suggested; also, in Music, the definition given by the College Entrance Examination Board.

FEES, EXPENSES, AND AID FUNDS

Tuition and Incidental Fees

THE Tuition Fee for undergraduates in all departments (except Medicine) is $75 per quarter.

The Incidental Fee for undergraduates (except in Medicine) is $20 per quarter. Students paying this fee have the privileges of the gymnasia, athletic grounds, Guild, and Stanford Union or Women's Clubhouse, with membership in the Associated Students, without further quarterly fees. There is also a Pavilion fee of $1 per quarter assessed upon all undergraduates by the Associated Students.

The Tuition Fee for regular graduate students, except in the departments of Law and Medicine, is $50 per quarter. The Tuition Fee for graduate students in Law is $65 per quarter. The Guild Fee for graduate students is $2 per quarter. Graduate students may have the privileges of the gymnasia and athletic grounds ($5), Stanford Union or Women's Clubhouse ($1), with membership in the Associated Students ($2), upon paying the quarterly fees.

The Tuition Fee for all students (graduate and undergraduate) in the School of Medicine is $85 per quarter; the Hospital Fee, $2 per quarter. Medical students desiring membership in the Stanford Union, Women's Clubhouse, or Associated Students, or the use of the gymnasia and athletic grounds, will pay the usual fees designated for these purposes. A deposit to cover breakage or loss of apparatus and materials may be required in any department, such deposits being returnable, less charge for breakage, loss, or wear and tear of apparatus. The total deposits for this purpose may vary from $10 to $20 per annum.

Students who have paid the regular fees of the Medical School in full and who wish to take additional work before graduation, will pay for this additional work such fees as are decided upon in conference with the Dean and the Executive Head of the department in which such courses are taken.

The General Fee at the Hopkins Marine Station (covering all charges) is $75 per quarter for undergraduates and $50 for graduates.

In addition to the above fees students in laboratory courses pay for the materials which they use, and in some courses small syllabus and other fees may be charged.

(Tuition and incidental fees are ordinarily returnable, when duly claimed in writing, within two months after the date of withdrawal from the University, as follows: Two-thirds of the incidental fee and the whole

of the tuition fee will be refunded when the student withdraws within two weeks after the date of registration; one-half of the incidental fee and two-thirds of the tuition fee when the student withdraws at a later time, but within four weeks after the date of registration. Laboratory fees (except in Chemistry, where a different procedure is applicable) are likewise returnable when duly claimed in writing within two months after the date of withdrawal from the University, as follows: The whole amount will be refunded when the student withdraws within one week of the beginning of a quarter, and one-half the amount if the student withdraws before the middle of a quarter; but no fees will be refunded on account of withdrawal after the middle of a quarter, nor unless claimed in writing within two months after the date of withdrawal.

A Diploma Fee of $5 is charged all persons receiving degrees from the University.

Cost of Living

There are five dormitories for men (Branner, Encina, Toyon, and Sequoia Halls, and the Stanford Union) and one for women (Roble Hall).

Undergraduate men, not living with parents or guardians, are expected to room in the dormitories. Entering Lower Division men are required to live at Encina Hall for the first three quarters in the University. Rooms in the Union are available preferably for graduates, "holdovers," and seniors. Application for room assignments should be made to the Dean of Men several weeks in advance of the opening of the quarter, and should be accompanied by a deposit fee of $5. Men students not rooming in the dormitories may live only in places approved by the University. (Consult the Dean of Men). Rooms in the dormitories cost from $18.50 to $36 per quarter (average cost $24 per quarter), payable at the beginning of each quarter. Students living in the dormitories are expected to supply their own linen and bedding for standard size single beds. Board may be obtained at the Stanford Union, Sequoia Hall, Encina Hall, and in various clubs, the cost ranging from $30 to $40 per month. Entering Lower Division men who live at Encina Hall are also required to eat there. The cost of board in the Encina dining hall is approximately $30 per month.

In Palo Alto, at an average distance of a mile and a quarter from the University, rooms (for men) can be obtained in private houses at from $12 to $18 per month. Special commutation tickets are issued by the Southern Pacific Company, and students living in towns on the line of the railway, from San Francisco to San Jose, easily go to and from the

University daily. There is also trolley connection with San Jose, Los Gatos, and intermediate towns.

Undergraduate women not living with parents or guardians, are required to reside in Roble Hall for three quarters. (Some modification of this requirement for the succeeding autumn quarter may be made for students entering in the winter and spring quarters). Women students not residing in Roble Hall may live only in places approved by the University. (Consult the Dean of Women). Rooms in Roble Hall cost $30 per quarter and board $90 per quarter. Room rent is payable in advance for the quarter; board in advance for the quarter or in two installments ($45 each). Students rooming in the Hall furnish couch covers, bed linen, blankets, towels, bureau scarfs, rugs, and curtains. White curtains are uniform for the Hall and must be purchased of the Matron. (Students in the summer quarter may rent curtains for seventy-five cents for the quarter; a few rugs are also available for rent to summer quarter students.) Applications for rooms in Roble Hall should be made to the Dean of Women and must be accompanied by a deposit of $5. Rooms are assigned in order of application, and early application is advisable.

The cost of living for students of Medicine in San Francisco is about the same as at Stanford University. There are numerous rooming and boarding houses near the medical buildings.

(Guest rooms are maintained at the Stanford Union and may be engaged by making reservations in advance. The guest suite, available for men, or man and wife, is composed of a sitting-room, bedroom, and private bath. Rates per night, $4 for one person, $4.50 for two; by the week, $21. Limit of two weeks. Two guest rooms, each accommodating two men, are available at the rate of $1 each per night. Limit of two weeks. Reservations may be made with the Custodian, or applications may be left in the dining-room office of the Stanford Union.

Additional guest rooms will be added to the Union accommodations as far as the campus housing problem permits and patronage is assured.)

FIXED EXPENSES PER QUARTER

The following is an estimate of the expenses *per quarter,* for undergraduate men, *for the items named:*

	Medium	High
Tuition and Incidental Fees	$ 95.00	$ 95.00
Books, Syllabus Fees, etc	15.00	30.00
Board	90.00	120.00
Room	18.00	45.00

Incidentals (other than clothing and railway fares)	35.00	50.00
Laundry and clothing	35.00	100.00
Total for the quarter	$288.00	$440.00

Laboratory fees are additional. The cost of board is variable and the estimate given for men is conservative, while a lower cost is possible in coöperative clubs. For women residing in Roble Hall room and board amount to $120 for the quarter. All undergraduates pay also the Pavilion assessment of $1 per quarter.

Self-Support of Students

A considerable number of students find it possible to earn the whole or a part of their expenses while attending the University. Success depends upon the student himself. The University, through the Appointment Secretary's office, and in other ways, is able to help the student both in finding work and in making plans. It cannot, however, assume the responsibility of supplying work for all applicants. The student who combines initiative with industry and reliability, and who is willing to adapt himself to circumstances, is the one who succeeds in this as in other undertakings. As a result of experience it is believed that no properly prepared student who is possessed of good health and who has no dependents need hesitate to undertake a university course because of lack of means; for if he is sufficiently in earnest in his desire to "work his way through," opportunities will not be lacking.

Students who are contemplating earning their own expenses at the University should not register for a heavy course nor attempt to engage in more than one student activity, particularly during their first quarter at the University. (Self-supporting students whose scholarship is high are given preference in the awarding of scholarships.) While working one's way is an education in itself, there are many valuable features of college life that must be foregone if one is earning a living. Students who have the necessary means will do well to devote any energy not needed in their studies to various extra-curricular activities rather than to earning their expenses.

The student is not advised to enter the University without a reserve fund to provide for immediate needs or unexpected contingencies. This fund ordinarily ought to amount to at least $200, although it is preferable for new students to have a larger sum. The student needs time to get acquainted; to become adjusted to University methods and requirements; to systematize his University work; to learn about the various

opportunities for earning money; and to discover how much time he can afford to devote to self-support and still make study his main object aside from keeping in good health. In general the student should not undertake to earn a larger proportion of his expenses than is absolutely necessary, for his working time is too valuable for this and should be devoted to his studies to the largest extent possible. It is recommended that no new student plan to devote more than four hours a day to earning his expenses.

The most ready-to-hand means of earning one's board at the University, whether for men or women, is by waiting on table. From three to four hours per day will cover the required time, which comes when it is least missed. Such chances are to be found in the dormitories, in cafés and boarding houses, and in public and private eating clubs. Other forms of work, for the relatively unskilled, are gardening, housework, care of children, janitor service, special jobs in connection with gymnasium and athletic activities, manual labor in connection with laboratory sections, agencies for laundries and other businesses, etc. Positions requiring more or less preliminary training have to do with plain cooking, clerking, bookkeeping, stenography and typewriting, music for dances, newspaper reporting, printing, tutoring, the management of student enterprises, etc. For advanced students in the various departments there are opportunities to act as assistants in quiz sections, in the reading of examination papers, reports, etc. Laboratory assistants are usually students either in graduate or undergraduate standing, as are also some of the part-time assistants in the various administration offices. Other means of support are found in the scholarships and fellowships offered, and through the considerable loan funds now available. A limited number of opportunities during the short vacations, particularly at Christmas time, can be found in San Francisco and elsewhere, as special postoffice clerks or salesmen in the larger stores.

New students who must begin earning as early as possible, will do well to be on hand a little in advance of the opening of the University and to come equipped with bicycles and working clothes. They should promptly enroll with the Appointment Secretary, Room 170, in the Administration Building. Women should discuss their plans also with the Dean of Women.

Assistantships.

Student-assistant positions held by either undergraduates or graduates in the various departments, range in pay from $35 to $150 each per quarter, the average being about $75 per quarter. These assistantships do not include a considerable number of minor positions in laboratories

or elsewhere where mere labor without skill or special knowledge is required; nor do they include those positions where the full time of the assistant is demanded.

Each department selects and recommends for appointment its own assistants. Requests for information as to pay and duties, and applications for appointment, should be addressed to the Executive Head of the department in which a position is sought.

Loan Funds

After the first quarter in the University, and in approved cases, students may defer payment of tuition fees by means of promissory notes. Applications should be made to the Dean of Men and the Dean of Women, respectively.

The following loan funds (with the exception of the Women's Student Loan Fund) are administered by the Committee on Scholarship. In general not more than one hundred dollars may be loaned to any one student, and provision is made for repayment not later than one year after date of graduation or withdrawal from the University. Applications should be filed with the Dean of Men.

Stanford Alumni Association Graduate Loan Fund.—Loans are restricted to candidates for advanced degrees, including the A.M., J.D., M.D., and Ph.D. degrees, preference being given to candidates for the Ph.D. degree. In making loans emphasis shall be placed upon character, scholarship, and intellectual promise in addition to personal need. ($245.)

Stanford Alumni Association Undergraduate Loan Fund.—"For worthy undergraduates." ($250.)

Associated Students Undergraduate Loan Fund.—For the benefit of worthy undergraduates who are members of the Associated Students of Stanford University. ($250.)

William Burton Barber Loan Fund.—Established in 1914 by Mrs. Anna M. Barber, in memory of her son, William Burton Barber, '02, "to provide for needy and worthy students." This fund, increased by over $5,000 from the estate of Mrs. Jeannette Taylor, is available for men and women of the senior class who have been registered in the University for at least one quarter. The amount at present available is $6,576.60.

Class of 1906 Loan Fund.—No restrictions except such as may be imposed by the Committee on Scholarship. ($100.)

Horace Davis Loan Fund.—Mr. Horace Davis, charter member of the Board of Trustees, provided in his will a fund of $10,000, the interest

of which is to be used as a loan fund for students. The amount at present available for loans is $2,577.27.

Dean of Men's Loan Fund.—An emergency loan fund administered by the Dean of Men upon approval of the President.

Harker Alumnæ Association Loan Fund.—Established in 1917 by the Alumnæ Association of Miss Harker's School, a large number of whose graduates have been Stanford students. There are no restrictions except that if a graduate of Miss Harker's School applies she shall be given preference, other qualifications being equal. ($225.)

Dr. Robert Patek Memorial Loan Fund.—Established in 1921 by Mrs. Sadie Dernham Patek (Stanford, '11) in memory of her husband, Dr. Robert Patek. This fund, principal and interest, is to be loaned to medical students to assist them in completing their medical course. A student who has once received a loan from the Fund is entitled to continue to get additional loans until his graduation. The loans granted to students are to bear no interest for six years, then to carry an interest rate of six per cent until paid. Applications for loans are to be made through the President's Office.

John M. Switzer Student Loan Fund.—Mr. John M. Switzer (ex-'98) has presented to the Student Guild the sum of $500, which is to be used from time to time as an emergency loan fund to help tide over critical periods in the career of needy and deserving students who are trying to complete a course at Stanford.

Women's Student Loan Fund.—The Women's Student Loan Fund was organized by the Women's Conference through private subscription, and is increased yearly by small sums earned by a committee of the Conference. It is available for small emergency loans on the following conditions: (1) no interest to be charged until one year after the student leaves the University, then to begin at six per cent, payable annually; (2) all loans to be paid within five years after the student leaves the University. Application for loans from this fund should be made to the Dean of Women.

Scholarships

Alumni Scholarship.—Established in 1923 by a group of alumni, and available for 1923–24. The donors nominate the holder of the scholarship. They direct that all tuition, registration, and other fees be paid out of the stipend, and that the amount remaining, divided into approximately nine equal installments, be paid to the holder of the scholarship toward living expenses. The amount available is $500.

The Alumni Jordan Scholarships.—The Alumni Jordan Scholarship Fund has been founded largely by physicians who were at one time students of Stanford University. Its purpose is to pay the tuition fees of two or three medical students of high standing, with the stipulation that at some future time the amount will be returned without interest. The student who once receives this scholarship loan will be entitled to its use throughout his medical course, provided his work continues to be satisfactory.

The Bertha Hyde Braly Scholarship.—In 1916 Mrs. J. M. Braly, of Fresno, established an annual scholarship of $250 in memory of her daughter, Bertha Hyde Braly, '97. The amount of the scholarship was increased to $300 by Miss Elizabeth M. Braly in 1921. The scholarship is available for a woman student who is a resident either of Fresno County or of Santa Clara County.

Colonial Dames Scholarship.—Established in 1923 and, either upon the recommendation of the department of history or by competition, to be awarded to the student submitting the best paper on a subject in the field of colonial history. The amount available is $100.

The E. C. Converse Scholarships.—In 1921 the University received a bequest of $50,000 from the estate of Edmund C. Converse for the establishment of the E. C. Converse Scholarship Fund. The income of this fund is to be used under the direction and at the discretion of the President or other ranking executive of the University, in the establishment and maintenance of scholarships not exceeding $500 per annum, to be paid to needy and deserving students. Ten undergraduate scholarships of the annual value of $250 each have been created.

The Mabel Hyde Cory Scholarship.—In 1921 Miss Emma L. Martin, '97, and her sister established a four-year scholarship of the annual value of $500, in memory of Mabel Hyde Cory, '96, who died February 15, 1921. This scholarship is to be awarded preferably to a needy young woman in the Department of History.

The George E. Crothers Law School Scholarship.—In 1917 Judge George E. Crothers, of the class of 1895, established a Law School Scholarship of the value of $200 annually.

The Dickey Scholarships.—In 1914 the Trustees of the University received from the estate of the late W. J. Dickey, of Fresno, the sum of $10,000 for the establishment of the W. J. Dickey Scholarship Fund "to aid young men from Fresno County, preferably from Fresno City, to make their way through Stanford University." The Trustees of the Dickey Estate are Mr. E. A. Waldron, Cashier of the First National

Bank of Fresno, and Mr. M. B. Harris, of the Fresno bar. The selection and appointment of the W. J. Dickey scholars is made by the President upon the recommendation of the Committee on Scholarship, subject to the provision that the trustees under the will of Mr. Dickey shall be consulted and their advice taken before any appointment is made. No one may be appointed to a Dickey Scholarship unless he shall have been a resident of the County of Fresno, and preferably of the City of Fresno, for at least two years prior to his appointment; and no scholarship may be held or shared by one person for more than four years.

No one may be appointed to a W. J. Dickey Scholarship unless he has fulfilled all the requirements for regular standing in the University.

Other things being equal, in making appointments preference shall be given to first-year students.

Appointments are made for the college year, but may be terminated earlier at the discretion of the committee, and also at the discretion of the committee appointments may be renewed for a total period not to exceed four years.

In making its recommendation the Faculty Committee shall keep in mind that the donor of the W. J. Dickey Scholarship Fund wished the benefits derived therefrom to favor persons financially unable to make their way through college. In addition to this fact, character, scholarship, and seriousness of purpose shall be taken into consideration in determining appointments.

The W. J. Dickey Scholarship Fund provides for two scholarships of about $200 each, payable in nine monthly installments.

Application for appointment to the W. J. Dickey Scholarships, with pertinent evidence and testimonials, is to be made to the President of the University, who will refer it to the appropriate committee. Candidates shall be recommended by the committee to the President, who will submit the names to the trustees of the Dickey estate, and upon their approval appointments shall be made by the President of the University.

The Henry G. Dodds Scholarship.—In 1921 Mr. Henry G. Dodds established a scholarship fund of $3,000. The income from this fund ($150) is to be awarded annually to a deserving male student, preferably from the Pacific Coast.

The Orrin W. Dunn Scholarship.—Established in 1923 by Mrs. Harriet L. H. Dunn to aid in meeting the expenses of young men (who must be unmarried) attending Stanford University and registered in any of the various departments of engineering, chemistry, geology, or medicine, with sufficient credit to entitle them to junior standing. The donor

has provided that the holder of the scholarship shall be selected by the President of the University. The annual value of the scholarship is $300.

The Cyril F. Elwell ('07) Scholarship.—In 1919 Mr. Cyril F. Elwell, '07, established a scholarship, of the annual value of $500, to be awarded by the Committee on Graduate Study to a graduate student in the Department of Electrical Engineering, upon the recommendation of the Department.

The Hiram C. Fisk Scholarship.—In 1920 Mr. W. D. Fisk established a scholarship in memory of his son, Hiram C. Fisk, who is on the Stanford Honor Roll. The amount now available is $250 per annum.

The Gertrude Gardiner Scholarship.—In 1920 Miss Gertrude Gardiner established a scholarship of the annual value of $200, to be known as the Gertrude Gardiner Scholarship, and to be awarded to a non-sorority woman who has been a student in the University for at least two quarters and who is a resident of Roble Hall.

The Wilmer J. Gross ('16) Scholarship.—In 1919 Mrs. Wilmer J. Gross (Dorothy Davy, '16) founded a scholarship in honor of her husband, Wilmer J. Gross, '16, who died in service in France. This scholarship, of the annual value of $150, is open to all undergraduate men who have been in residence in the University at least one year, the appointment to be based primarily on scholarship, with the addition of good moral character and general excellence.

Harvard Club Scholarships. (For students residing in the neighborhood of San Francisco.)—The Harvard Club of San Francisco offers two scholarships, of the annual value of $350 each, to students desirous of pursuing undergraduate studies in Harvard College, or postgraduate studies in Harvard University. Other things being equal, preference will be given to undergraduates. In awarding these scholarships the scholarly attainments of the applicants, as shown by their records, their character, needs, and general development will be considered. Applications should be made in writing, not later than February 15th, to the Chairman of the Scholarship Committee of the Harvard Club of San Francisco, Mr. George S. Potter, 1827 Pacific Avenue, San Francisco.

The Brodie G. Higley ('99) Scholarship.—In 1915 Mr. Brodie G. Higley, of the class of 1899, established, through the Alumni Association, an annual scholarship of $150, "open to either a man or woman undergraduate student who is in good and regular standing in the University, and to whom the money will be a real assistance." In 1919 Mr. Higley deposited with the Board of Trustees securities to the amount of $3,000 to perpetuate this scholarship.

The selection and appointment of the Brodie G. Higley scholar will be made by the President upon the recommendation of the Faculty Committee on Scholarship. Appointment will be made for the college year, but may be terminated earlier on recommendation of the Committee and at the discretion of the President.

Applicants for the scholarship must have been registered in the University for at least three quarters prior to the time of application. In making appointments it will be the purpose of the University to emphasize character, scholarship, and intellectual promise, as well as personal need. Ordinarily the scholarship will be payable in six equal installments, beginning October 1st. Applications should be filed with the Academic Secretary of the University.

The E. W. Hopkins Scholarships.—A fund of $25,000, the gift of Mr. E. W. Hopkins in 1923. Income to be used for paying the tuition of needy students. Five scholarships of the annual value of $250 each are thus awarded to entering students in 1923–24.

The Charles Andrews Huston Memorial Scholarship.—Established in 1923 by Mrs. Margaret Huston as a memorial to her husband, Charles Andrews Huston, for many years Professor of Law and Dean of the Stanford Law School. The holder is to be either a graduate or an undergraduate student in the Law School, nominated by the faculty and approved by the Committee on Scholarships. Provided he meets the minimum requirements for holders of University scholarships, the holder need not be chosen primarily for scholarship rating, but for high personal, social, and professional ideals and for interest in cultural fields outside his professional work.

The Ira S. Lillick Scholarship.—In 1920 Mr. Ira S. Lillick, of the class of 1897, established a scholarship, of the value of $500, to be awarded annually to a worthy student, preferably in Law.

The Mrs. Ira S. Lillick Scholarship.—In 1920 Mrs. Ira S. Lillick established a scholarship, of the value of $500, to be awarded annually to a worthy student, preferably in Law.

The Ernest A. Love ('18) Scholarship.—In 1920 Mr. and Mrs. Allan Love founded a scholarship, of the annual value of $150, in honor of their son, Ernest A. Love, '18, who died in service in France. This scholarship is open to worthy and needy undergraduate men, preference being given to students from Arizona.

The Mrs. McDowell Roble Club Scholarship.—The sum of $150 per year has been presented to the University by Mrs. John E. McDowell for the purpose of establishing a scholarship to be granted

to a Roble Club member who has been a student in the University and a resident of Roble Hall for two years, the award being made at the close of the junior year.

Memorial Scholarship.—The trust establishing the Leland Stanford Junior Memorial Scholarship provides a fund of $6,000, the income of which shall be used "to pay the living expenses, cost of books, fees, and other necessary expenses of the holder." Under the present arrangement the Memorial scholar receives in cash $100 per quarter, or a total of $300 for the academic year. In addition the trust sets aside a room in Encina Hall for the use of the holder of the scholarship and for which no charge is made.

The Dorothy Metz ('17) Scholarship.—In 1920 Mrs. Lillian C. Metz established an annual scholarship, of the value of $200, in memory of her daughter, Dorothy Amanda Metz, '17, who died in service, the scholarship to be awarded "to a worthy and ambitious student of limited means."

Regional Scholarships.—These scholarships may be awarded to persons who meet the minimum requirements for admission to the University (fifteen acceptable high school units); who ranked in the upper fifth of their graduating class, counting all four years of the preparatory course, or only the last two; and who need this help in order to enter the University. Nominations for regional scholarships will be received from the organized alumni of the region.

San Mateo Union High School.—Established in 1921 by the Associated Students of the San Mateo Union High School. ($300.)

The Rhodes Scholarships.—Under the will of the late Cecil Rhodes two scholarships are assigned to each state and territory in the United States. Each scholarship has a yearly value of $1,500, and is tenable at any college in the University of Oxford for three successive academic years.

Candidates must be unmarried, must be citizens of the United States and must be not younger than nineteen nor older than twenty-five on October 1st of the year in which they are elected. All scholars, before going into residence, shall have reached at least the end of their sophomore year at some recognized degree-granting university or college. In accordance with the wish of Mr. Rhodes the trustees desire that "in the election of a student to a scholarship, regard shall be had to (1) his literary and scholastic attainments; (2) his fondness for and success in manly outdoor sports, such as cricket, football, and the like; (3) his qualities of manhood, truth, courage, devotion to duty, sympathy for

and protection of the weak, kindliness, unselfishness, and fellowship; (4) his exhibition of moral force of character and of instincts to lead and take an interest in his schoolmates during school days."

The Dr. Emmet Rixford Scholarship in Surgery.—In 1921 Dr. Emmet Rixford, Professor of Surgery in the Stanford Medical School, made a gift of $500, to be awarded to some graduate of Stanford Medical School or to some staff member of rank under that of assistant professor, to be chosen by the medical faculty, for work on some surgical problem, anatomical, physiological, pathological, or clinical, the problem to be approved by the faculty.

The Marcelle Henriette Rouiller ('15) Scholarship.—In 1920 Madame Jeanne R. Rouiller established, in memory of her daughter, Marcelle Henriette Rouiller Calley, '15, a scholarship, of the value of $200, to be awarded to a worthy and needy student for the payment of tuition fees.

The Leon Sloss Fund.—In 1922 Mrs. Bertha G. Sloss established a fund of $5,000 in memory of Mr. Leon Sloss, one of the original trustees of the University, the income to be awarded annually to a needy student. At present this fund is being administered by the Scholarship Committee.

Sperry Scholarship.—In 1919 the Sperry Flour Company established an industrial scholarship of the annual value of $350.

Stanford Women's Club of San Francisco Scholarship.—The provisions of this scholarship, established in 1924, stipulate that it shall be awarded preferably to a San Francisco girl and that the need of the student shall be the chief concern. The amount available is $150.

The John Maxson Stillman Scholarship in Chemistry.—Established from the Stillman Testimonial Fund, presented to Professor John Maxson Stillman by graduates and former students in chemistry, and by others, on the occasion of his retirement from active service in the University, in May of 1917. The amount available is $150 per year, and the scholarship is open to undergraduate or graduate students in the Department of Chemistry upon nomination by the department faculty and approval of the President.

The University Scholarships.—In 1919 the Trustees of the University established for graduate students thirty Stanford scholarships, each paying $200 per year of three quarters, awarded for a term of one year, and allowing for the scholar's reappointment at the expiration of this time. Holders of these scholarships are required to pay tuition

and incidental fees, the graduation (diploma) fee, laboratory expenses, and all similar charges laid upon other graduate students.

The William Irvin Weaver Scholarship.—In 1919 Miss Eva Ray Weaver, '13, established this scholarship, of the annual value of $150, in honor of her brother, William Irvin Weaver, '13, who died in service in France; the scholarship to be awarded to a graduate or undergraduate student in the Department of Chemistry, on the recommendation of the department faculty, subject to the approval of the President of the University.

Fellowships

Belgian Relief Commission Fellowships.—In 1919 the Committee for Relief in Belgium arranged for the establishment and support of a number of fellowships for Americans to undertake graduate study in Belgian universities, with an equal number for advanced Belgian students in American universities.

The Buckel Fellowship.—In 1914 the University established, through the coöperation of the trustees of the estate of Dr. C. Annette Buckel, a research fellowship for the study of backward and feeble-minded children. The annual income from the Buckel estate is supplemented by a sum appropriated by the Trustees of the University, making the total amount available for the fellowship $500.

Fellowships in Education.—In 1919 a fellowship was established jointly by Professor Cubberley and the Board of Trustees, of the annual value of $500, and known as the Fellowship in School Administration. In 1924 a second fellowship of the same character and amount was established by similar joint action.

Application for these fellowships should be made through Professor Cubberley.

There was also established, in 1923, for a two-year period, through aid extended by the Commonwealth Fund, a Fellowship for the Study of Differentiable Mental Abilities. The value of this is $600 a year.

Fellowship in the Study of Superior Children.—In 1919 a Fellowship for the Study of Superior Children was established jointly by Professor Terman and the Board of Trustees, of the value (for 1924–25) of $1,250. Application for this fellowship should be made through Professor Terman.

The Food Research Fellowships.—The Food Research Institute has established four fellowships, with stipends ranging from $600 to $1,200 per year of three quarters, for the purpose of promoting research upon food problems.

The Lionel Remond Lenox Fellowship in Chemistry.—In 1921 Professor Lionel Remond Lenox, of the Department of Chemistry, established a fellowship, of the annual value of $600, the conditions of award being as follows:

The holder of the fellowship must be a graduate of Stanford University or of some other college or university of recognized standing; must have taken at least one year of graduate work in the Department of Chemistry of Stanford University; must be a candidate for the degree of Doctor of Philosophy in Chemistry in Stanford University; must show an excellent degree of scholarship; and, in addition, be of good moral character. The question of the financial stress of the holder need not be considered primarily, though in general, where there are several applicants of equal degree of scholarship, preference naturally should be given to the one most in need of financial assistance; the selection of the candidate to rest entirely with the Department of Chemistry.

The Physical-Therapy Fellowship.—This gift, established by an anonymous donor in 1923, and to be known as the Rehabilitation Fund of the Medical School, provides a fellowship for six months ($300) available in 1923–24.

Thomas Welton Stanford Fellowship in Psychic Research.—From the "Psychic Fund" created by Mr. Thomas Welton Stanford, in 1913, the Trustees have established this fellowship for research in psychic phenomena.

Teaching Fellowships.—The Board of Trustees established in 1917 two teaching fellowships, of the value of $600 each, in Chemistry.

The University Fellowships.—The Trustees of the University established in 1917 two University fellowships, and in 1919 six additional fellowships, of the value of $750 each per year of three quarters, to be awarded annually by the Committee on Graduate Study for the purpose of fostering advanced study and research in the University. In general these fellowships will not be awarded to students in their first year of graduate study.

The William Roberts Eckart Research Fund for Mechanical Engineering.—Together with his mother, two brothers, and sisters, Professor W. R. Eckart, of the Department of Mechanical Engineering, established this fund, in 1923, as a memorial to his father, William Roberts Eckart, to foster and encourage experimental research in mechanical engineering and to interest, assist, and inspire young men who have shown ability to conduct such work.

The fund is administered by a committee consisting of the pro-

fessors in the Department of Mechanical Engineering, with the executive head of the department as chairman, and is to be devoted to the following purposes: (1) the purchase of special apparatus, equipment, or tools, necessary for investigation or research, particularly that of students, such apparatus to become the property of the mechanical engineering department and to be added to its research equipment; (2) the defrayal of legitimate expenses required for the successful conduct of any investigation of which the committee may approve. It is not the intention or purpose of the committee to apply the fund toward the living or other personal expenses of the investigators, or as a recompense for work carried out in the conduct of research, it being the desire to emphasize the spirit of doing such work for the reward which comes in the knowledge of a completed investigation well done. The amount available for 1923–24 is $600.

Yale Alumni Association Fellowship.—For the pursuit of graduate study at Yale, the Yale Alumni Association of California awards annually to a graduate of Stanford University or of the University of California, the sum of $300 (to which Yale University adds an amount equal to the charge for tuition). Applications should be addressed to the Secretary of the Yale Alumni Association, University Club, San Francisco.

The Guild

The Guild is an organization which seeks to make provision for the care of all cases of serious illness among students. For non-contagious diseases this is accomplished through an arrangement with the Palo Alto Hospital and, for medical students, with the Stanford University hospitals in San Francisco. For the care of contagious diseases provision is made by the maintenance of a Detention Hospital on the University Campus. A reduction of two dollars per day from the regular hospital charges is given all members of the Guild, a substantial portion of the charges for medical attention and special hospital service being paid by the organization.

GENERAL REGULATIONS

Registration

ON the appointed registration days, in October, January, April, and June, each student must obtain a certificate of registration, *in person,* at the Registrar's office.

Matriculated students may register after the appointed registration days upon payment of a special fee: two dollars on the first or second day; three dollars on the third day; four dollars on the fourth day; and so on, up to the maximum of ten dollars. Registration of undergraduates and specials will not be permitted later than three weeks after the beginning of instruction. (Places are not held for women, nor for entering men in the limited group, after the regular registration days except by permission of the Committee on Registration, granted in advance.)

Study-List Card

At the Registrar's office the student receives a card for selection of studies for the quarter. This card, properly filled out and approved (for Lower Division students, by the Committee on Lower Division Administration; for others, by the Major Department), must be filed with the Registrar at the time of registration; but late study cards will be accepted upon payment of a special fee of two dollars. Students registering late are admitted to particular classes only by permission of the instructor concerned. All work for which University credit is desired must be duly registered.

Enrollment in Classes

A student desiring to enter any class presents to the instructor the certificate of registration for enrollment at the beginning of each quarter. Whether the student is qualified for enrollment in a particular class, is a question to be decided by the instructor in charge. In general the prerequisites for taking any given course are noted under "Courses of Instruction."

Change of Studies

A student desiring to drop a subject once taken up, or to take up a new subject after the study card has been filed, for such change, must present to the appropriate committee a petition approved by the Major Department and by the instructors whose subjects are to be taken or dropped. In general petitions so approved and not involving courses required of Lower Division students, if they do not give the student too

many unit-hours or too few unit-hours, and if presented within three weeks after the beginning of the quarter, are granted without question. At the end of the first three weeks the undergraduate study-lists are to be considered as fixed. After this period petitions to drop or take up courses are granted only for extraordinary reasons and, where the taking up of new subjects is involved, only on payment of a special fee of two dollars for each course; if otherwise accepted but presented after the close of the quarter, they will be granted only on payment of a special fee of four dollars for each course. During the last four weeks of the quarter no courses may be officially removed from the student's study-list for any reason whatsoever; but if failure to complete a course satisfactorily be due to illness or other unavoidable circumstance, application may be made to the Committee on Scholarship for such relief as shall seem equitable.

Change of Major Subject

Petitions to change the major subject will be granted when approved by the departments in charge of both the old and the new subjects, the student being held to all the requirements of the new major subject.

Amount of Work

Fifteen hours per week of recitations or lectures, or an equivalent in laboratory work (counting fifteen units toward graduation) constitute an average quarter's work. Undergraduate registration for less than thirteen units is permitted only in the case of students doing outside work for self-support or otherwise, or where considerations of health are involved, and upon approval of the Committee on Registration. Aside from this limitation the undergraduate student may undertake any program of studies approved by the Lower Division Committee or by the Major Department, as the case may be, subject to the following restrictions: (1) For the first quarter in residence at the University the amount of credit which may be counted toward graduation, except as noted below under four, shall not exceed sixteen units. (2) Where a condition or failure or withdrawal without permission has been incurred in the preceding quarter, the amount of credit which may be counted toward graduation, except as noted below under four, shall not exceed sixteen units. (3) Where the work of the student for the three preceding quarters falls below an average B grade (two grade points per unit), except as noted under four, not more than eighteen units may be counted toward graduation. (4) Any student who has received credit for at least 123 of the 180 units required for graduation, and whose previous record does not fall below a C+ average (one and one-half grade

points per unit), upon application to the Committee, may be given permission to undertake the completion of his work for the A.B. degree in three quarters; if he has received credit for 140 units, in two quarters; if for 159 units, in one quarter. (5) Where the previous Stanford record of the student reaches an average B grade, no restriction is placed upon the counting value of the approved program of studies.

Grade point averages and totals shall be based upon the actual units registered and not upon the counting value toward graduation.

Graduate students are not held to any prescribed number of units, but ordinarily registration will not be permitted unless such students are prepared to devote at least half of their working time to University study.

Petitions for irregular registration are to be presented at the beginning of the quarter.

Every unit for which credit is given is understood to represent approximately, for the average student, three hours of actual work per week through one quarter. Thus, in lecture or recitation work, for one unit of credit one hour per week may be allotted to the lecture or recitation and two hours for preparation or subsequent reading and study on the part of the student; but if a less amount of time is allotted for preparation or subsequent reading or study, there shall be a proportionate decrease in the amount of credit. Where the time is wholly occupied with drawing, field, or laboratory work or in the classroom work of conversation classes, three full hours per week through one quarter are expected of the student for each unit of credit; but where such work is supplemented by systematic outside reading or experiment under the direction of the instructor, such a reduction may be made in the actual drawing, field, laboratory, or classroom time as seems just to the department concerned.

Scholarship Honors

High scholastic attainment is recognized by the University in the following ways: by awarding honors upon the completion of the Lower Division, to about the upper tenth of the class; by designating as Stanford Scholars about thirty students in the Upper Division; by conferring the degree of Bachelor of Arts "with distinction" upon about one-tenth of the graduating class and "with great distinction" upon about one-twentieth of the graduating class.

Scholarship Grades

In reporting the standing of students at the end of each quarter the following grades are used: A, B, C, D, passing grades, corresponding

in a general way to the terms excellent, good, fair, barely passed; +, passed without defining grade; ±, conditioned; —, failed. In grading classes A is considered as normally applicable to not more than fifteen per cent, B and C to thirty-five per cent each, and D to fifteen per cent of the students of passing grade. (This distribution of grades is advisory and is understood to admit of a certain degree of flexibility in the handling of small classes.)

Conditions and Incompletes

A student conditioned or reported incomplete in any subject must remove the deficiency within one calendar year, or the work will be considered a failure.

A deficiency due to failure to take or pass a written examination is removed by passing a similar test on the same work. This may be done by taking a regular class examination in the course, if repeated in time, or a special written examination to be held during the fourth week of any quarter. A student is entitled to one examination within the year, either regular or special.

Where deficiencies are due to failure to take or pass an oral examination, the time for holding a new oral examination to remove the condition or incomplete, is determined by the instructor concerned. Compliance with the regulations for written examinations, so far as practicable, is required.

Deficiencies due to other causes may be removed by any work or test satisfactory to the department concerned.

To remove a condition only one examination is permitted, and if an examination to remove an incomplete results in a condition, but one examination is allowed to remove it. On all such examinations instructors will report grades to the Registrar. For every removal of a condition or incomplete, except when removed by passing a regular class examination, a fee of two dollars will be charged each student. Any deviation from these regulations requires the approval of the Scholarship Committee.

Scholarship Reports and Notices

At the middle and at the end of the quarter each department is notified of all serious deficiencies in scholarship affecting students whose major work is in that department.

When a student is reported as seriously delinquent in scholarship, the fact is communicated to his parent or guardian.

Probation and Disqualification

Standard work is obtaining fifteen units, with as many grade points as registered units, per quarter. This standard applies to each quarter and is also an average standard to be maintained in the entire record of the student.

At the end of any quarter in the University a student who fails to obtain twenty-two counts (the sum of units and grade points), is placed on probation. At the end of the first or second quarter he is considered as failing in his studies and is disqualified for further attendance at the University if he does not obtain ten counts. At the end of subsequent quarters less than fifteen counts will result in "disqualification."

At the end of the second and every subsequent quarter the student's entire accomplishment is compared with what would have been obtained had he done standard work. If he is above, at or even slightly below standard his scholarship standing is considered normal. But if his deficiency becomes considerable the result is probation and in serious cases disqualification.

Application for reinstatement is not ordinarily considered until the end of one calendar year after disqualification; but a student disqualified solely on a deficiency in a single quarter and who has an average C grade in all his Stanford work prior to that quarter, may apply for reinstatement at the end of one quarter, except that such students disqualified in June may not reënter before the following January. Reinstatement is granted only upon satisfactory evidence that the student has employed the period of absence from the University usefully, either in attendance at another educational institution or in some gainful occupation. Work in another institution must reach an average quality halfway between passing and one hundred; or, if the institution is a member of the Association of American Universities, one-third above passing. Work outside of a college or university must show diligence, ability, and maturity of purpose.

Leave of Absence in Case of Delinquent Scholarship

Generally leave of absence, unless applied for at least four weeks before the end of the quarter, will not be granted to a student on probation nor to any student whose work during the current quarter is unsatisfactory.

From Special to Regular Standing

Special students may be entered in regular standing on passing examinations in the required number of entrance subjects, provided such examinations are passed not later than two years after matriculation. In

place of entrance examinations, university work, to the amount of seven units for each entrance unit, may be offered in university subjects which are also included in the entrance group. (Entrance examinations are given in June by the College Entrance Examination Board and in September by the University, both using the question papers prepared by the Board.)

University Credit for Extra Entrance Subjects

High school subjects offered in excess of the fifteen units required for undergraduate standing may be credited toward graduation, with a maximum of seven university units for one entrance unit, under the following conditions: (1) The subject must anticipate a course or courses given in the University (e. g., advanced mathematics, the laboratory part of elementary chemistry, or a foreign language); (2) The student, during his first six quarters in the University, must either pass the regular quarterly examinations in the corresponding course, or else complete an advanced course in the University in the same subject with a grade not lower than B. Additional high school units earned after matriculation may be offered only by special students and for the purpose of making up entrance deficiencies.

University Credit for Special Courses

Matriculated students on leave of absence may take work in other universities, usually without any restrictions other than those imposed by the institution in question. But work undertaken in any Summer Session may be subject to special regulations and must be approved by the Major Department and by the department in which work is to be taken.

Work of a special character taken outside of regularly scheduled classes, *in absentia* or during vacation periods, may be credited under the following conditions: (1) The work must be acceptable as part of the major requirements for the A.B. degree in the department whose courses it parallels or supplements; must be given necessary supervision and direction by such department and subjected to tests equivalent to those in regularly scheduled courses; and must be approved by the Major Department and by the Committee on Admission and Advanced Standing; (2) Such work may not be offered by students whose general scholarship record is unsatisfactory, or for covering deficiencies due to poor scholarship; (3) For these special courses not more than forty-five units may be credited toward graduation.

Ordinarily the last quarter's work for a degree must be taken in this University, but in special cases students who have obtained at least one

hundred and thirty-five units in resident work, and who have completed all Major Department requirements, may be exempted from this regulation and permitted to complete the required number of units under the provisions noted above.

Advanced Credit

A student from an institution of equivalent rank, who maintains a satisfactory record after admission, may expect to receive the same standing as at the former institution, not, however, with more than three years' advanced credit (one hundred and thirty-five unit-hours toward graduation), and not without consideration of the differences in standard of entrance preparation. Every candidate must present a full certified transcript of his college record, including entrance credit, and a letter of honorable dismissal.

Recommended graduates of approved state normal schools where the normal training has been preceded by a full four-year high school course, or where high school and normal school courses together cover six years' work, may be granted ordinarily an advanced credit of sixty-seven units. In the case of students from the California state teachers' colleges, beginning with the 1921 graduating classes, this advanced credit may be increased to ninety units, provided, in the judgment of the Committee on Admission and Advanced Standing, that the courses taken are substantially equivalent to the work of the Lower Division of the University.

In general advanced standing for work done before matriculation will be given only when certified as having been completed in some institution of recognized collegiate rank, except as provided above for extra entrance units or for work completed in approved state normal schools. But in special instances permission may be given by the faculty to receive credit on examination for work equivalent to regular University courses. Application for such examinations, with satisfactory evidence of the work accomplished, must be presented to the Committee on Advanced Standing, and application for advanced standing on the basis of work done before entering the University must be made within two years after matriculation.

Graduate Standing

Admission to technical graduate standing does not imply admission to candidacy for an advanced degree. (For the conditions of such candidacy see pp. 127–128). If graduates of other universities desire to become candidates for the baccalaureate degree, upon approval of the Committee on Admission and Advanced Standing the question of units required

for graduation may be waived and the degree conferred on the satisfactory completion of not less than forty-five units of University work and the fulfillment of all major and minor requirements. Upon the approval of the major department, graduate students not candidates for any degree may be permitted to undertake such work as their previous training seems to warrant.

Leave of Absence

A student desiring to leave the University for a brief time should apply to the Committee on Registration. If leave of absence is desired on account of sickness, the petition must be indorsed by the medical adviser. A leave of absence is merely a justification of the absence and not a relief from the work that has been missed, and usually is necessary only in case of interrupted work. A student in good standing absent one or more quarters may re-enter at the beginning of any quarter without formal petition.

Honorable Dismissal

An honorable dismissal means that the student is permitted voluntarily to withdraw from the University and is commended to the favorable consideration of any institution he may wish to enter, and upon written application such dismissal may be granted to any student not under discipline for misconduct.

Conduct of Students

The Committee on Student Affairs exercises the authority of the University over all students individually with respect to personal conduct and, with the exception of athletic and debating teams, over student organizations which bear the name of the University or which represent the University in non-academic activities, and, in general, assumes such measure of authority over non-academic organizations of students as may be needful to safeguard the general good name and well-being of the University community.

Individual or collective student enterprises which involve the absence of the participants from the University while using the University name, must receive the official sanction of the Faculty Committee concerned.

In the government of the University the largest liberty consistent with good work and good order is allowed. Students are expected to show both within and without the University the respect for order, morality, personal honor, and the rights of others, that is demanded of good citizens. Failure to do this will be sufficient cause for removal from the University.

In 1908 the Board of Trustees of the University provided that in

all future rentals or leases of houses as fraternity chapter houses it shall be expressly stipulated that no intoxicating liquors of any kind whatever shall ever be sold or used on the premises. The Trustees also by formal resolution requested the Academic Council to prohibit the use of liquor in fraternity chapter houses, students' clubhouses and other student lodgings.

This action of the Board of Trustees is not only in harmony with the instructions given by the Academic Council to its Committee on Student Affairs but also defines the policy of the University. Prohibition of the use of liquor extends to all student lodgings whether on the campus or elsewhere, and the University assumes that the act of registering as a student implies full acceptance of the policy.

Student Control

In 1911–12 the Faculty Committee on Student Affairs and the University Conferences entered into an agreement by which responsibility for the government of the students and for maintaining University standards was assumed by the men and women of the University. This delegation of responsibility, temporarily recalled for men in 1918, was resumed in 1919–20 under an agreement between the President and the men of the University. Under this agreement the responsibility for maintaining University standards among the men students is assumed by the senior class. The Men's Student Council is responsible for the enforcement of University rules governing student conduct, all actions of the Council being submitted directly to the President for sanction or disapproval.

University Health Control

The University exercises an advisory control over student health affairs through the Committee on Public Health.

Every student upon entering the University is required to report for a brief examination. General health and evidence of effective vaccination are the important factors in the examination. Any condition which may place a limitation on the amount or kind of work planned by the student may be discussed with him or made the subject of a report to his major department or to the Committee on Registration.

Students intending to train for any of the athletic teams, or to register for gymnasium work, are required to pass a careful physical examination at the beginning of each quarter.

VACCINATION

Not later than three weeks after the day of registration every student must file with the Committee on Public Health a certificate, giving exact

dates of vaccination, with the record of successful vaccination within seven years, and bearing the signature of a duly licensed and practicing physician as the vaccinator.

Non-compliance with these requirements will result in a fine of two dollars after three weeks, an additional fine of four dollars after four weeks, and cancellation of registration after five weeks from the day of registration.

Certificates are to be filed at the Registrar's office. They will be returned upon request. "Conscientious objections" will not be recognized as exempting anyone. Unavoidable delay or failure to secure a satisfactory certificate will not exempt anyone from the fine.

(It is advised that candidates comply with this requirement before coming to the University, and that vaccination certificates be sent in advance by mail. Blank certificate forms may be obtained on application to the Secretary of the Public Health Committee at the Registrar's office.)

DEGREES AND TEACHING CREDENTIALS

CANDIDATES may be presented for graduation in January, April, June, and October.

No degree will be conferred upon any person who has not spent at least three quarters in resident study at the University. No honorary degrees are given.

Lower Division Requirements

The Lower Division consists of the first and second years of the University curriculum. Its object is to introduce the student to fundamental fields of human interest, and to this end it requires the completion of certain studies during the first two years. To students enrolled in the Lower Division the members of the Committee on Lower Division Administration stand in the same relation as that occupied by departmental advisers toward their major students.

Under the supervision of the Committee on Lower Division Administration, the work of the first two years is made up of group requirements, subject requirements, and electives. These requirements are as follows:

GROUP REQUIREMENTS

Eighteen units (nine per year) in each of the following groups: (1) languages and literature (English and foreign), formative art (including graphic art and drawing courses in the engineering departments); (2) natural sciences, mathematics; (3) social sciences (including history, political science, economics, philosophy, and education).

SUBJECT REQUIREMENTS

Six units in English composition (English 2, three units per quarter for two quarters) to be taken during the second year in the University and applied on the Group 1 requirement. (A course in elementary English composition, English A, is also prescribed for first-year undergraduates who do not satisfy the matriculation test.)

Twenty-two units in one foreign language or *fifteen units* each in two foreign languages. (This requirement may be anticipated in the high school, in whole or in part, its full equivalent being three entrance units in one foreign language or two entrance units each in two foreign languages.)

Nine units in a biological science and *nine units* in either physics or chemistry, to be applied on the Group 2 requirement. (One of the sciences may be anticipated in the high school, its equivalent being one

entrance unit in a biological science, in physics or chemistry, or in general science.)

Nine units in American history and *nine units* in General History, normally taken during the second year to fulfill the Group 3 requirement. (One of the history requirements may be anticipated in the high school, its equivalent being one entrance unit in history.)

Twelve units in Citizenship (four per quarter) to be taken during the first year in the University. This course fulfills the Group 2 requirement in the first year.

All undergraduates enrolled in the Lower Division, with the exception of those registered in the Military Department, are required to devote to physical training three schedule hours per week for a maximum of six quarters.

Major Subject

The selection of a major subject will be made ordinarily at the end of the second year upon completion of the requirements of the Lower Division. At the beginning of any quarter, however, the Lower Division student may designate the particular department in which he expects later to do his major work, at which time he will be directed to the department for consultation and advice regarding electives before making up his study-list.

The selection of a major subject in the work of some one department may be made at the beginning of the junior year upon completion of the Lower Division requirements. The Major Department has the authority to prescribe not more than sixty units in the major subject (exclusive of elementary courses which the department may offer for entrance). The Major Department shall also recommend such other courses as may be considered desirable, and shall exercise an advisory supervision over the student's curriculum from quarter to quarter. It shall be considered a general principle of University policy, to be departed from only in exceptional cases, that at least ninety of the one hundred and eighty units required for the degree be taken outside of the Major Department.

In applied science the Major Department may prescribe as much of the entire one hundred and eighty units as shall be deemed essential to the technical or professional requirements of the major subject.

Within these limitations the work in all departments is elective, and the student may freely choose any course which his previous studies have prepared him to undertake.

(A student in regular undergraduate standing, who does not intend to become a candidate for the A.B. degree, may choose, with the approval

of the Lower Division Committee, or of the Major Department, any course in the University which his previous training has prepared him to undertake.)

Bachelor of Arts

The degree of Bachelor of Arts (A.B.) is conferred upon candidates who have fulfilled the following requirements:

(1) The completion of one hundred and eighty (quarter) units of university work, including the required Lower Division courses together with the required physical or military training. (A special student who has completed two hundred and twenty-five units of university work, including all Lower Division and major requirements, and whose general university record is deemed proof of superior scholarship, may become a candidate for graduation on approval of the Committee on Admission and Advanced Standing; but ordinarily petitions to this end will not be considered by the committee until after the student has completed one hundred and eighty units of university work.)

(2) The acquirement of as many grade points as there are units registered on the candidate's record card. A unit of credit passed with a grade of A counts three grade points; with a grade of B, two grade points; with a grade of C, one grade point; with a grade of +, one grade point; with a grade of D, no grade points. A condition removed does not count grade points, no matter what the final grade may be. (Advanced credit for work in other institutions counts one grade point for each unit of credit.)

(3) The completion of the major subject requirements as prescribed by the Major Department.

The recommendation of the Major Department is necessary to graduation.

Forty-five units constitute a normal year's work (see p. 94). The ordinary class divisions (freshman, sophomore, junior, senior) are not recognized by the University and the degree is conferred whenever the requirements are met, without regard to the time spent, but with the proviso that at least forty-five units (including, except in special cases, the last fifteen) must be completed in this University.

As a recognition of high scholastic attainment the Bachelor's degree may be granted "with distinction" or "with great distinction."

Master of Arts

The degree of Master of Arts (A.M.) is conferred on graduates of this University and of other recognized institutions, upon the satisfactory completion of one academic year of graduate work, the presentation of

an approved thesis, and the passing of such general or final examination as the Major Department or School may require. A longer period of residence will be necessary for candidates who are inadequately prepared or who devote less than the normal proportion of time to their studies. In no case will the degree be granted unless the student has been registered for three quarters after completing the requirements for the A.B. degree, and it is then conferred only upon recommendation of the Committee on Graduate Study.

Not later than the third week of the quarter next preceding that in which the master's degree is to be conferred, a candidate must file an application which shall include a candidacy recommendation from the Major Department or school, with a program of study approved by the same body. The acceptance of this application by the Committee on Graduate Study is necessary for admission to candidacy for the degree. At least two-thirds of a year's work must be devoted to advanced or graduate study in the major subject or in intimately allied subjects. Work may be done in connection with regular courses or, as in research, independently of them. Applications once submitted must be kept on file, and may not be withdrawn even if substitutes are filed and accepted.

The master's thesis must display the candidate's ability to do independent work. A copy, bearing the approval of the instructor under whose supervision it was prepared, must be submitted to the Committee on Graduate Study by the date on which instruction closes for the quarter in which the degree is to be conferred. This copy shall be the original, not a carbon copy, typed on paper of standard size and weight, with a title-page of the form prescribed by the committee, and suitably bound. Upon acceptance it will be placed in the University Library.

Engineer

In the departments of applied science the professional degree of Engineer is conferred on graduates of this University and of other recognized institutions upon the satisfactory completion of professional study in residence, for either one or two years, as the Major Department may require, and upon the presentation of an approved thesis showing ability to do independent work. Upon the recommendation of the department the requirement of residence may be waived in part, but solely in order to permit the carrying on of advanced work under conditions not available at the University. The degree is conferred only upon the recommendation of the Committee on Graduate Study.

The special regulations for the degree of Master of Arts dealing with registration, program of study, and thesis, as stated above, apply also to candidates for the degree of Engineer.

Juris Doctor

The degree of Juris Doctor (J.D.) is conferred, on recommendation of the Committee on Graduate Study, upon students who have previously received the degree of Bachelor of Arts, or its equivalent, at the completion of the three years' professional law course.

Doctor of Medicine

The degree of Doctor of Medicine (M.D.) is conferred, on recommendation of the Committee on Graduate Study, upon students who complete the eight-year curriculum—the three-year pre-medical course as laid down by the University, and five years of Medicine, including the interne year.

Doctor of Philosophy

A candidate for the degree of Doctor of Philosophy (Ph.D.) must be a graduate of this University or have had equivalent training. Those who contemplate offering themselves as candidates for this degree are invited to correspond with the instructors in the subjects involved. Before being recommended for the degree a candidate must show, together with a satisfactory general equipment, high attainment in a particular field of knowledge as well as ability to do independent investigation, mere length of residence and courses taken not establishing the main consideration. A candidate must have satisfactorily completed at least three years of graduate work under the following conditions:

1. At least one year of graduate study, other than the first, must be spent in residence at this University, where candidates must be registered. Within the first quarter after entering upon study for this degree (ordinarily the first quarter of the second year of graduate study) a candidate must file with the registrar an application which shall include a candidacy recommendation, from the Major Department or School, with a preliminary program of study approved by the same body. For admission to candidacy for the degree it is also necessary that the application be approved by the Committee on Graduate Study. Applications once submitted must be kept on file and may not be withdrawn even if substitutes have been filed and accepted.

2. The program of study will include ordinarily one major subject and one or two minor subjects, the minor subject or subjects usually representing approximately one-third of the program of study. The minor subject requirement may be waived in cases where a modification of the formal rule seems desirable to the Major Department or School and to the Committee on Graduate Study, for instance, where the interests of the student's work may be better served by a division of his

collateral study among more than two subjects or departments, or where certain courses of study falling within a department may be indicated rather than a full minor of one-third of his time.

3. Before the primary examination (see section 4) the candidate must show a reading knowledge of French and German in his special field. The faculty of the department in which the major work is taken determines whether this requirement has been met, and certifies the fact in writing to the Committee on Graduate Study at or before the primary oral examination.

4. At some time within his third quarter of study preceding that in which the degree is to be taken (that is, toward the end of the preceding year or in any event no later than the first six weeks of his next quarter following) the candidate must pass a primary oral examination approximately three hours in length. The examining committee shall consist of (1) the chairman of the Committee on Graduate Study or his delegate presiding; (2) the professors in the group of departments in which the major subject lies; (3) the professor or professors in charge of the minor subject or subjects, if lying in another group of departments. For this purpose the dean of graduate study may designate the Department of Philosophy, the Department of Education, or the Food Research Institute as a temporary member of any one of the five groups—Language and Literature, History and Social Sciences, Biological Sciences, Pure Mathematical and Physical Sciences (including Applied Mathematics), and Engineering Sciences. Any member of the academic council may attend and take part in the examination, but only members of the committee vote. The object of the examination is chiefly to investigate the candidate's knowledge of his major and minor subjects, but his general education may also be included. For special reasons, and with the approval of the Major Department and of the Committee on Graduate Study previously obtained by the student, a small proportion of the field of his major and minor subjects may be excepted from this examination. While the special field in which his disseration lies may be investigated, no searching examination of it will be undertaken at this time. A two-thirds majority of the committee passes the candidate.

5. At least four weeks before the close of the final quarter before the degree is to be conferred, the candidate must deposit a dissertation at the Registrar's office. The dissertation must be the result of independent work, expressed in satisfactory literary form, and must in some way add to or otherwise modify what was previously known on the subject. It must be approved by a special committee consisting of

the professor under whom it was written and two others, and appointed by the chairman of the Committee on Graduate Study.

6. After the acceptance of the dissertation by the special committee, the candidate shall be given a secondary oral examination of an hour or more, mainly on the special field in which his dissertation lies, but also on such subjects as may have been excepted from the primary examination. The examining committee of five members shall consist of the chairman of the Committee on Graduate Study, or his delegate presiding, who shall appoint a professor selected by the candidate's Major Department, a professor selected by the candidate's Minor Department or departments, if any, and additional members to make the total of five. Three favorable votes are necessary to pass the candidate.

7. Before the degree is conferred the candidate must deposit at the Registrar's office (1) three typewritten (or printed) copies of his dissertation, one of which will be made available by the University Library for loans to other libraries, and (2) an abstract of its contents between 500 and 2,000 words in length. Such abstracts will be from time to time issued in a volume by the University, and each candidate's estimated share in the expense of printing this volume will be added to his diploma fee.

Advanced Degrees in the School of Medicine

The departments of the School of Medicine are considered as equivalent to other departments of the University in respect to candidacy and requirements for the degrees of Master of Arts and Doctor of Philosophy, and all the foregoing regulations apply to these departments and department faculties, with the following modifications and limitations:

1. Candidates for these degrees must have received the degree of A.B. at Stanford, or an equivalent degree elsewhere, and must have completed all requirements for admission to the School of Medicine, with such other requirements as each division faculty may prescribe.

2. Time spent in candidacy for the degree of Master of Arts or Doctor of Philosophy will not be counted toward the degree of Doctor of Medicine.

3. Candidates for these degrees in the departments of Medicine, Surgery, and Obstetrics and Gynecology, must have received the degree of Doctor of Medicine.

TEACHING CREDENTIALS

Teachers' certificates are issued by county, and city and county, Boards of Education under the provisions of Section 1519, subdivision 5 (*a*), Section 1775, subdivision 1 (*a*), Section 1792 of the Political Code of

California. The State Board of Education of California, in accordance with the state law, has empowered the University (through the School of Education) to grant recommendations for teachers' certificates, valid in this state, and of four grades: (1) Elementary, (2) Junior High School, (3) High School, and (4) Special. Preliminary certificates, valid only for cadet teaching in connection with Education Course 201, are also granted. These are valid for teaching and are granted under the following conditions:

1. For the Elementary School Certificate*

1. The possession of a Bachelor's degree from this University.

2. The completion of at least 15 quarter units of college work in each of three of the following departments or lines of work: English, some language other than English, Graphic Art, History and Economics, Mathematics, Physical Science, Biological Science, General Science.

3. The completion of at least 18 quarter units of work in the Department of Education, which must include: (*a*) Practice in Teaching and School Management, 8 units (Courses 199 and 201 satisfying this requirement); (*b*) Elementary Education, 3 units (Course 150); (*c*) California School System and Law (Course 155); (*d*) Education for Citizenship (Course 160); (*e*) additional work in Education sufficient to make up the required number of units, courses below 200 being suggested as the desirable ones from which to select.

2. For the Junior High School Certificate*

1. The possession of a Bachelor's degree from this University, together with a valid Elementary Certificate.

2. The completion of at least 23 quarter units of approved work in the Department of Education in the case of those who are not normal school graduates, and of at least 8 units in the case of those who are, Education 196 being included in both instances.

3. The completion of additional work in subject-matter courses to be not less than the following:

(*a*) For normal school graduates, either of California state teachers' colleges, or of other teachers' colleges or normal schools which have been accredited by the State Board of Education as equivalent, not less than one year (45 quarter units) of college work, of which at least 33 units shall have been in two of the following departments or lines of work: Latin, German, French, Spanish, English, History, Mathematics, Physical Science, Biological Science;

* Valid for teaching in the eight grades of the elementary schools.
* Valid for teaching in the seventh, eighth, or ninth year of the public schools of California, when organized as intermediate schools or junior high schools.

(*b*) For those who are not normal school graduates but who possess a valid California elementary school teacher's certificate, not less than two years (90 quarter units) of college work, of which one-half (45 units) shall have been in two of the departments or lines of work listed above under (*a*).

3. For the High School Certificate*

In all cases the candidate must hold a Bachelor's degree from some institution requiring eight years of high school and college work for such degree; must satisfactorily complete the required work in at least one Teaching Major and one Teaching Minor, with the exception that where the major is Education two minors are required, and in addition must complete in this University a varying amount of graduate study, to be determined by the following conditions:

I. STANDARD GROUP

1. One year (at least 39 quarter units) of graduate study, which shall include one full-year course (not less than nine units) of advanced work (numbered 100 or above) or of graduate work in at least one subject in which recommendation is sought.

2. At least 27 quarter units in Education, including the following courses: (*a*) School and Classroom Management, 2 units (Course 199); (*b*) Practice Teaching, with conferences, 6 units (Course 201); (*c*) Secondary Education, presenting particularly the purpose and attainable goals of high school work, 3 units (Course 195); (*d*) the work of the Junior High Schools, 2 units (Course 196); (*e*) California School System and Law, 3 units (Course 155); (*f*) Education for Citizenship, 3 units (Course 160); (*g*) a teacher's course in at least one subject in which the candidate expects to be recommended for certification, if such course be given in the institution and be accepted or listed under the work in Education (6 units maximum for all such courses); (*h*) such other courses relating to the theory, function, and administration of public education as are needed to complete the required 27 units.

3. Candidates who have taught or have been engaged in school supervision in this or any other state, and who present credentials showing that they have done so with reasonable success, may be excused from 6 of the 27 units of Education represented by the practice teaching (Course 201), and may also be excused from the course in School and Classroom Management (Course 109), or allowed to substitute other work in Education therefor. All students desiring such exemption must make applica-

* Valid for teaching in the high schools or elementary schools, or for doing supervisory work in California.

tion on Form B, which may be obtained at the office of the Secretary of the School of Education, Room 52.

II. EXPERIENCED TEACHERS' GROUP

Teachers who have had at least seventeen months of satisfactory experience in elementary or secondary schools, in this or other states, may be exempted from as much as one-half of the year of graduate work and from as much of the required work in Education as their experience seems to warrant if their application for exemption is approved by the School of Education. In any case all such persons will be expected to meet at least the following requirements:

1. Two quarters (at least 26 quarter units) of graduate study, which shall include not less than 9 units of advanced work (numbered 100 or above) or of graduate work in at least one subject in which recommendation is sought. Students who can arrange their graduate work so as to be present during the Summer Quarter may satisfy the residence requirement by one and a half quarters, if other requirements can also be met in this time.

2. At least 18 units of work in Education, including (*a*) Secondary Education, 3 units (Course 195); (*b*) the Junior High School, 2 units (Course 196); (*c*) California School System and Law, 3 units (Course 155); (*d*) Education for Citizenship, 3 units (Course 160); (*e*) a teacher's course in at least one subject in which the candidate expects to be recommended for certification, if such course be given in the institution and be accepted by or listed under the work in Education (6 units maximum for all such courses); (*f*) additional courses as approved to make up the required 18 units. Application for exemption from Education requirements on the basis of teaching experience must also be made on Form B.

III. NORMAL GRADUATE GROUP

1. Graduation from an approved normal school.

2. Two quarters (at least 26 quarter units) of graduate study, which shall include not less than 6 units of advanced work (numbered 100 or above) or of graduate work in at least one subject in which recommendation is sought (with permission to reduce this to one and a half quarters, as under Group II).

3. At least 18 quarter units in Education, including (*a*) Secondary Education, 3 units (Course 195); (*b*) the Junior High School, 2 units (Course 196); (*c*) California School System and Law, 3 units (Course 155); (*d*) Education for Citizenship, 3 units (Course 160); (*e*) a teacher's course in at least one subject in which the candidate expects

to be recommended for certification, if such course be given in the institution and be accepted by or listed under the work in Education (6 units maximum for all such courses); (*f*) additional courses as approved to make up the required 18 units. In lieu of the teacher's course other courses in Education must be taken to make up the required 18 units.

IV. SPECIAL NORMAL COURSE GROUP

1. Two quarters (at least 26 quarter units) of graduate study, which shall include not less than 6 units of advanced work (numbered 100 or above) or of graduate work in at least one subject in which recommendation is sought (with permission to reduce to one and a half quarters as under Group II).

2. At least 18 quarter units in Education, including (*a*) Secondary Education, 3 units (Course 195); (*b*) the Junior High School, 2 units (Course 196); (*c*) California School System and Law, 3 units (Course 155); (*d*) Education for Citizenship, 3 units (Course 160); (*e*) a teacher's course in at least one subject in which the candidate expects to be recommended for certification, if such course be given in the institution and be accepted or listed under the work in Education (6 units maximum for all such courses); (*f*) additional courses as approved to make up the required 18 units. In lieu of the teacher's course other courses in Education must be taken to make up the required 18 units.

3. One-half year (preceding or following the two quarters of graduate work) in any California state teachers' college approved by the State Board of Education, and which offers a special half-year (or two terms) of full-time instruction, especially selected for college graduates preparing for high school certification in California.

4. For Special Certificates

A special certificate of secondary grade, authorizing the holder to teach only such branch or branches and in such grades as are named in such certificate (manual and fine arts, technical arts, household arts, commercial subjects, physical education activities, oral and dramatic expression, modern languages, journalism, music) may be granted as follows:

1. To recommended candidates who have had at least four years' instruction beyond that required for graduation from a high school maintaining a four-year course in advance of the eighth grade, or who have had an equivalent amount of training.

2. At least one-half (90 quarter units) of this four years of collegiate instruction must have been devoted to study or work in the special subject or subjects in which application for certification is made, and in

such subjects as are strictly supplementary thereto, as arranged and approved by the School of Education of this institution. (See *Annual Announcement of the School of Education,* Part VII.)

3. At least 23 of the 90 quarter units required to be given to the special subject or subjects must have been devoted to the study of the pedagogical subjects suited to the training of a secondary schoolteacher, at least 6 units of which must have been devoted to practice teaching, including methods of instruction in the special subject or subjects, under competent supervision. Ordinarily Courses 155, 160, 195, 196, 199 and 201 must be included.

4. Time devoted in the secondary school period to study or work in the special subject or subjects in which the candidate desires certification may be substituted at the rate of half-time for similar studies or work in the collegiate period. Such substitution though shall not exceed one-half of the total time required in the special subject or subjects. Successful experience in teaching may be substituted for part of the required pedagogical work, but all such substitutions are subject to determination by the School of Education in individual cases. Application for such substitutions must be made to the School of Education on Form B.

5. For Preliminary Certificates

Recommendations for preliminary special or preliminarp regular high school teachers' certificates, authorizing the holder to do cadet teaching, without salary, in any secondary school in the county, are also granted to those enrolled for Practice Teaching, Education 201. Those wishing to do practice teaching in elementary schools secure the recommendation for such preliminary certificates through the County Superintendent of Schools, on the recommendation of the Director of Practice Teaching.

Application for a Teaching Credential

1. When any student has spent the requisite time in study at this University and has completed the prescribed program of studies in majors and minors for the High School Teacher's Recommendation, or the special course of study required by the School of Education and by the regulations of the state for an elementary school, a junior high school or a special or vocational type of teacher's recommendation, or has fulfilled the requirements for recommendation for certification in some other state, such student must make application for the desired type of recommendation for a certificate and leave such application with the Secretary to the School of Education, Room 52. The recommendation desired will be granted only after the application has been approved by the School of Education Committee on Credentials and Degrees.

2. All teachers' recommendations for the High School Certificate in California will state on their face the particular majors and minors which the holder has made special preparation to teach, and holders of the old form of general recommendation will be permitted to have their preparation and teaching experience adjudged in terms of the new standards for majors and minors, and to exchange the old forms of recommendation for the new.

3. Whenever the holder of any recommendation for either a regular or a special High School Certificate, specifying majors and minors or special subjects on its face, shall by further study build up minors into majors, or add new majors or minors or special subjects, such addition shall be recorded on the face of the Teacher's Recommendation.

APPOINTMENT OFFICE

The Appointment Secretary is a member of the President's executive staff, with offices in the Administration Building. The duties of this secretary are briefly as follows:

1. To assist students and graduates of the University to obtain permanent employment or promotion in the kind of work for which they have prepared themselves.

2. To help students of the University who are earning part or all of their own expenses to find suitable part-time employment.

3. To help students who wish it to find full-time temporary employment, whether the purpose be merely to earn money or to become more proficient in their chosen field of work.

4. To give inquiring students and graduates as accurate information as possible regarding the actual opportunities presented by the different fields of employment. The investigation which this work involves is an important feature of the Appointment Secretary's duties.

Statistics covering the work accomplished are compiled annually.

The Appointment Secretary aims to secure and keep on file a complete record of the education, experience, and personal qualifications of each candidate for a permanent position, to be used by prospective employers in determining whether or not the candidate is qualified for the position to be filled. In order that the statements made may be frank and reliable, they are never shown to candidates.

The University reserves the right of refusing to extend its coöperation to candidates who apply for positions for which they are manifestly unfit.

Forms for registration may be obtained of the Appointment Secre-

tary upon request. When asking for forms it is necessary to state whether part-time, temporary, or permanent employment is wanted and, in the case of permanent employment, whether in teaching or some other profession.

Teachers must renew registration annually, in January preferably, and those desiring other kinds of permanent employment should renew their registration the first of every month, particularly the first of September, which is the beginning of the academic year. Those seeking part-time or temporary employment must renew registration at the beginning of each quarter. The responsibility of renewing registration is placed upon the candidate.

New students who expect to earn part or all of their expenses at the University, should apply to the Appointment Secretary for registration forms as soon as possible after being notified of admission to the University.

Candidates for permanent positions are charged $1.50 at the time of registration. This sum covers the actual cost of collecting records. A small charge is also made for editing, copying, and mailing records. All classes of candidates are charged for telephone and telegraph bills incurred in their behalf. No charge is made for other services rendered candidates for part-time or temporary work, and no charge is made for the securing of positions of any kind.

All communications should be addressed to The Appointment Secretary, Stanford University, California.

COURSES OF INSTRUCTION

(The asterisk [*] indicates that the course is repeated for the quarter named. Otherwise, courses announced for more than one quarter are presumably continuous. Courses numbered from 1 to 99 inclusive are primarily for Lower Division undergraduates; from 100 to 199 inclusive, for Upper Division undergraduates; from 200 to 299 inclusive, for graduate students. Teachers' courses which count toward fulfilling the requirement in education established by the State Board of Education for the high school teacher's credential, are ordinarily given the number 200; when other numbers are used they are followed by the letter E. The enrollment in the various courses is printed in italics at the end of the descriptive matter.)

ANATOMY

ARTHUR WILLIAM MEYER, CHARLES HASKELL DANFORTH, FRANK MACE McFARLAND, Professors.
CLARA S. STOLTENBERG, Associate Professor.
ERNST HUBER, Acting Assistant Professor.
HERLWYN R. GREEN, Teaching Assistant.
FRANK BARRETT, Technical Assistant.

REQUIRED COURSES

101. General Histology and Microscopic Anatomy.—A course dealing with the elementary structure and vital activities of the animal cell, the histology and development of the tissues, and their combination into the organs of the vertebrates, with especial reference to the mammalia. Elementary histological technique is taught during the course. Open to medical students, and to others properly prepared, as far as laboratory space permits.

4 units, autumn and winter quarters [Lec. by arrangement] (McFARLAND) Lab. (autumn) MT 9–12, W 1:05–4:05; (winter) MTTh 1:05–4:05
autumn, 58; winter, 56

102. Osteology.—Students will be expected to familiarize themselves thoroughly, on their own initiative, with the surface anatomy of the bones of the skeleton, this individual work being supplemented by the laboratory study of special aspects of the subject under the supervision of instructors. Not given as a separate course, but in connection with Courses 103–5. Students should, however, enroll separately for this work, to which 3 units of credit are assigned. (MEYER, DANFORTH)
winter, 51; spring, 2

103. Dissection of the Human Body.
8, 3, 6 units (respectively), autumn, winter, and spring quarters (DANFORTH, GREEN, HUBER, MEYER) Lab. (autumn, winter) MTWThFS 9–12; (spring) MTW 1:05–4:05, ThFS 9–12
autumn, 52; winter, 61; spring, 48

206. Neurology.—A study of the structure of the central nervous system of man by means of dissections and prepared slides, supplemented by dissections of the central nervous system of other mammals.

5 units, autumn quarter (STOLTENBERG) Lec. TTh 11; Lab. MWF 8–11
autumn, 35; summer, 9

Optional and Advanced Courses

107. Cytology.—The course deals with the structure and functions of the animal cell with special reference to the reproductive processes. Lectures, laboratory work and assigned reading. Open to those who have had courses in Histology, Embryology and Microscopic Technique.
3 to 5 units, spring quarter (McFarland) [Not given in 1923–24]

108. Special Courses.—Advanced Courses in Histology, Histogenesis, Microscopic Anatomy, Cytology, or Microscopic Technique will be planned to suit the needs of individual students. Open to those who have had courses in Histology and Embryology.
2 to 5 units, spring quarter (McFarland) [Not given in 1923–24]
spring, 1

109. Topographical Anatomy.—The work consists of the laboratory study of frozen sections of fetal, infantile, and adult cadavers made in various planes and of dissected and specially injected preparations, supplemented by models and atlases. It is suggested that students, who can afford the time, supplement Courses 103–5 by the respective portions of Course 109 immediately on completing the dissection of a part. Open to students who have completed Courses 101–105.
2 to 5 units (Meyer) [By arrangement]
autumn, 3; winter, 5; spring, 2

110. Anatomy of the Sense Organs.—A study of the sense organs by means of dissections and prepared slides, supplemented by models and prepared dissections.
2 to 4 units, autumn and *winter quarters; 1 unit, summer quarter
(Stoltenberg) (autumn) TTh 8–11; (summer) W 1:05–4:05
spring, 11; summer, 10

111. Physical Anthropology.—Practical instruction in anthropometric methods with lectures on anatomical variation and heredity in man.
(Danforth) [By arrangement]
autumn, 2

112. Human Embryology.—This course will be offered as soon as adequate provision can be made, Course 106 in the Department of Zoology being a prerequisite.

213. Investigation and Special Work.—The facilities of the laboratory are always at the disposal of properly qualified students or physicians who desire to undertake the investigation of some problem in gross or microscopic anatomy or in embryology. This work must be arranged for individually, but may begin at any time.
autumn, 6; winter, 12; spring, 8; summer, 5

214. Conferences in Anatomy.—Special topics are assigned and outlines and references provided for discussion two hours weekly.
2 units (Meyer) [By arrangement]
winter, 12

Requirements for Advanced Degrees.—In addition to the requirements published in the University *Register* and the *Announcement of the School of Medicine,* students desiring to be admitted to candidacy for the degree of Master of Arts in Anatomy must have satisfactorily completed one year's work in histology and microscopic anatomy, at least

one quarter in embryology, and possess a knowledge of laboratory technique adequate for the investigation to be undertaken. For admission to candidacy for the degree of Doctor of Philosophy a reading knowledge of both French and German is further required.

Deposit Fees.—A deposit of $2.50 for microscopes and of $10 to cover damage to or loss of bones, is required of all students registering in gross and in microscopic anatomy. This sum, less charges for damage or loss, is refunded at the close of the academic year, except in the case of students discontinuing work, when the refund may be obtained at the end of the quarter. Students who are not registering in medicine are charged a fee of $15 for each of Courses 103–5, and $5 for each of the other courses, except 213 and 214.

APPLIED MATHEMATICS

Leander Miller Hoskins, William Albert Manning, Halcott Cadwalader Moreno, Sidney Dean Townley, Professors.
James Thomas Matthews, Acting Assistant Professor (Summer Quarter).
Kenneth Keith Kelley, Instructor.
Victor De Witt Davis, Milton Lawrence Wiedmann, Marie J. Weiss, Assistants in Instruction.

The courses of instruction offered by the Department of Applied Mathematics fall into two groups. The first group consists of strictly mathematical courses planned primarily to meet the needs of students of Engineering; the second, of courses in Astronomy and Geodesy.

In the courses preparatory to Engineering the aim is to make the instruction practical in the sense of furnishing thorough drill on fundamental principles and much practice in their application. Emphasis is laid upon accuracy and system in the solution of numerical problems. Students whose training in arithmetical work has been deficient, who are otherwise inadequately prepared or who lack aptitude for mathematical study, cannot pursue these courses successfully.

Students intending to major in any engineering department should have entrance credit in the preparatory subjects of algebra (two units), plane and solid geometry, and plane trigonometry. This preparation is regularly required for admission to any of the following courses except Descriptive Astronomy.

The mathematics regularly required of students in Engineering consists of Courses 1, 2, and 3. Each of these courses runs two quarters, 5 unit-hours per quarter, and they will be taken regularly in the order *1a, 1b, 2a, 2b, 3a, 3b.* It is possible, however, to take *2b* and *3a* simultaneously, but this is permitted only in the case of students having thoroughly satisfactory records in the preceding courses. With the approval of the instructor, students whose preparatory records show excellence not only in mathematics but also in general training, may enter Course *1b* without having taken *1a.*

1. Elementary Analysis.—This course presupposes a familiarity with the elements of algebra and trigonometry, and is designed to strengthen

the command of the student over these subjects and to give him a working knowledge of the method of coördinate geometry. Readiness in the application of the fundamental principles of algebra, trigonometry, and geometry to the solution of numerical problems, is of fundamental importance to the engineer, hence this side of the work is emphasized throughout the course.

1a. First half of Course 1.
5 units, autumn, *winter, and *summer quarters
(Townley, Kelley, Davis)
autumn, 97 (3 sections); winter, 52 (2 sections)

1b. Second half of Course 1.
5 units, *autumn, winter, *spring, and summer quarters
(Moreno, Kelley, Wiedmann, Weiss)
autumn, 72 (2 sections); winter, 99 (3 sections); spring, 56 (2 sections); summer, 12

2. Calculus.—An elementary course in Differential and Integral Calculus, in which emphasis is laid on fundamental principles and simple applications.

2a. First half of Course 2.
5 units, *autumn, winter, spring, and *summer quarters
(Moreno, Manning, Kelley, Matthews)
autumn, 41; winter, 50 (2 sections); spring, 72 (2 sections)

2b. Second half of course 2.
5 units, autumn, *winter, *spring, and *summer quarters
(Manning, Hoskins, Moreno)
autumn, 44 (2 sections); winter, 33; spring, 43; summer, 12

3. Theoretical Mechanics.—An elementary course covering the fundamental principles of Statics, Kinematics, and Kinetics and restricted mainly to coplanar forces and to plane motion of particles and of rigid bodies. It is designed as preparation for the Applied Mechanics courses taken by students of Engineering, but is open to all whose preparation includes the equivalent of Courses 1 and 2.

3a. First half of Course 3.
5 units, winter and *spring quarters
(Hoskins) (winter) MTWThF 10
(Manning) (spring) MTWThF 10
winter, 102; spring, 26

3b. Second half of Course 3.
5 units, autumn and spring quarters
(Hoskins) (autumn) MTWThF 10; (spring) MTWThF 10
autumn, 16; spring, 97

100. Engineering Mathematics.—This course is designed to meet the needs of students in Electrical Engineering, and should be taken by those intending to take Course 10 in Electrical Engineering.
3 units, autumn quarter (Moreno) [By arrangement]
autumn, 15

101a. Nomographs.—An elementary course on the construction and use of nomographs, including some other graphical methods.
2 units, autumn quarter (Moreno) TTh 11
autumn, 16; winter, 1

101b. Nomographic Drawing.—A course in advanced drafting, supplementary to 101*a*. Prerequisites: Engineering 1 and 2.
1 or 2 units, autumn quarter (Moreno, Thomas) [Not given in 1923–24]

200. Graduate Courses.—Advanced courses in Theoretical Mechanics, Hydromechanics, Theory of Heat, Theory of the Potential Function, Theory of Elasticity or other subjects, may be arranged for students having the requisite mathematical training.

202. Analysis.
5 units, autumn, winter, and summer quarters (MANNING)
autumn, 2; winter, 1; summer, 1

ASTRONOMY AND GEODESY

50. Descriptive Astronomy.—This course consists of a general survey of the various branches of astronomy, including a study of the celestial sphere, the bodies of the solar system, comets, the fixed stars and other heavenly bodies.
5 units, winter and *summer quarters (TOWNLEY)
autumn, 17; winter, 89

51. Observational Astronomy.—Study of constellations and various astronomical bodies: elementary methods of determining latitude and longitude. One afternoon or evening per week. Supplementary to Course 50.
1 unit, autumn, winter, and spring quarters (TOWNLEY)
winter, 29; spring, 5

150. Practical Astronomy.—The theory and practice of the determination of latitude, azimuth, time and longitude, with sextant and engineer's transit. Intended especially to meet the requirements of students of civil engineering, geology and navigation. Course 1, differential calculus and surveying are prerequisites.
3 or 4 units, spring quarter (TOWNLEY)
spring, 10

[Courses 50 and 51 are designed especially to meet the needs of students who have time for only a general knowledge of the subject. Course 150 is designed especially for Engineering and Geology students who desire a working knowledge of practical astronomy.]

151. Advanced Practical Astronomy.—A continuation of Course 150. Precise methods of determining time, latitude, etc., by means of the universal instrument.
Any quarter (TOWNLEY) [Hours and units by arrangement]

152. Adjustment of Observations.—Theory of the method of least squares, with applications. Credit in Course 2, or its equivalent, is a prerequisite.
3 units, winter quarter (TOWNLEY) [By arrangement]

153. Geodesy.—Study of the form and dimensions of the earth and the practical methods of geodetic work. Courses 150 and 152 are prerequisites.
3 units, spring quarter (TOWNLEY) [By arrangement]

154. Variable Stars.—Consideration of the different classes of variable stars, methods of observation and construction of light curves. Course 50 is a prerequisite.
3 units, spring quarter (TOWNLEY)
spring, 2

155. Celestial Mechanics.—A study of the motions of the bodies of the solar system under Newton's universal law of gravitation. Courses 1, 2, 3, 50 in Applied Mathematics and Course 150 in Mathematics are prerequisites.
3 units, winter quarter (Townley)

BACTERIOLOGY AND EXPERIMENTAL PATHOLOGY

Wilfred Hamilton Manwaring, Professor.
Edwin William Schultz, Associate Professor.
John Edward Blair, Instructor.

1. General Bacteriology.—This course covers a variety of non-pathogenic forms, including those related to the fertility of the soil and to the dairy and other industries, as well as pathogenic forms concerned in human, animal, and plant diseases. The bacteriology of water and sewage is also covered. The course is open to Lower Division students who have had General Biology and General Chemistry. The class is limited to thirty.
5 units, spring quarter (Blair) Lec. MWF 1; Lab. MWF 2–4
spring, 15

101. Protozoology.—This course includes a study of the biology of protozoa—the typical free living species and those parasitic in animals and man. The greater portion of the course is devoted to the species pathogenic for man, the character of diseases produced, and the prevention and control of protozoan infections. Open to pre-medical students.
5 units, spring quarter (Schultz) Lec. TThS 9; Lab. TThS 10–12
spring, 2

201. Medical Bacteriology.—A course devoted chiefly to the pathogenic bacteria, with emphasis on the laboratory procedures employed in the diagnosis of bacterial infections. Prerequisites: Chemistry 127, Physiology 103, and Zoology 104, or equivalents.
9 units, autumn quarter
(Schultz, Blair) Lec. MTWThF 1; Lab. MTWThF 2–4
autumn, 40

202. Experimental Bacteriology.—An advanced course in bacteriology 103, and Zoology 104, or equivalents.
requisite: Course 201.
6 units, winter quarter (Schultz) MTWThF 1–4
winter, 5

203. Principles of Immunity.—Introductory lectures on immunity and serologic methods. Must be preceded or accompanied by Course 201.
2 units, autumn quarter (Manwaring) TTh 9

204a, 204b. Elementary Serology.—A laboratory study of antitoxins, bacteriolysins, hemolysins, agglutinins, precipitins, opsonins, complement deviation, anaphylaxis, etc. Prerequisite: Course 203.
4 units, winter and spring quarters (Manwaring) [By arrangement]

204c. General Pathology.—(*a*) Continuous with General Pathology (*b*), Department of Pathology, San Francisco, or Bacteriology 205. The course, given from the experimental point of view, covers circulatory disturbances, degenerations, pigmentations, acute inflammations and regenerations. Prerequisite: Course 201.
6 units, winter quarter (SCHULTZ) Lec. MW 1; Quiz F 1; Lab. MWF 2–4
winter, 36

209. Journal Club.—A study of the current literature in bacteriology, immunology, and protozoology, with weekly conferences.
2 units, any quarter (DEPARTMENT STAFF) [By arrangement]
winter, 3

210. Advanced Work, Research.
5 to 10 units, any quarter (MANWARING, SCHULTZ, BLAIR) [By arrangement]
autumn, 4; winter, 6; spring, 4; summer, 4

FEES.—Course 201, $30; Courses 1, 101, 202, 204*a*, 204*b*, $15 each. Students pay for breakage and animals used.

LOWER DIVISION PREREQUISITES.—The completion of the following Lower Division courses, or their equivalents: Physics 1, 2, 3. 20; Chemistry 7, 9 (or 1, 2, 3), 4, 20, 127; Zoology 1 (or General Biology 1, 2, 3), 104; reading knowledge of German or French.

RECOMMENDED DEPARTMENTAL CURRICULUM.—Third year: Chemistry 141, 142, 143, 144; Physiology 103; Bacteriology 1, 101; Anatomy 101. Fourth year: Bacteriology 201, 202, 203, 204*a*, 204*b*, 209, 210; Chemistry 121, 123, or equivalents.

ADVANCED DEGREES.—In addition to the requirements for the Bachelor's degree, applicants for the degree of Master of Arts in Bacteriology and Experimental Pathology will be expected to complete the equivalent of forty-five units' work in the University, of which approximately two-thirds must be in the department. The department work will include a thesis based on laboratory work and Courses 101, 201, 202, 203, 204*a*, 204*b* and 209, if not included in the undergraduate work.

After the completion of the equivalent of the requirements for the Master of Arts, candidates for the degree of Doctor of Philosophy in Bacteriology and Experimental Pathology will follow such courses as are approved by the department, subject to general University regulations.

BIBLICAL HISTORY AND LITERATURE

DAVID CHARLES GARDNER, Chaplain, Lecturer.
HENRY RUSHTON FAIRCLOUGH, AUGUSTUS TABER MURRAY (Classical Literature), HENRY DAVID GRAY (English).

1. Religion and Ethics.—(1) A study of Jewish religion and ethics as disclosed in the Old Testament; (2) the life and teachings of Christ as disclosed in the Gospels; (3) Christian ethics and modern life.
2 units, autumn, *winter, and *spring quarters (GARDNER) Th 11
autumn, 36; winter, 30; spring, 61

[**New Testament** (Classical Literature A2c.). Review of Greek grammar; reading of the Gospel of Mark and Acts of the Apostles.]
3 to 5 units, winter quarter (MURRAY) MWF 1:05

[**New Testament Literature** (Classical Literature C35.). Lectures on certain books of the New Testament. Open to students above the first year.
2 units, autumn quarter (Fairclough) MW 9

[**New Testament Literature** (Classical Literature C36.). Lectures on the origin, authorship, and characteristics of certain books of the New Testament. Peake's Critical Introduction is used as a handbook.]
3 units, spring quarter (Murray) MWF 9

[**English Bible** (English 24.). Representative portions of the Bible studied as literature. Not open to first-year students.]
3 units, autumn quarter (Gray) MWF 10

BIOLOGY

SCHOOL OF BIOLOGY

Supplementary to the programs offered by the various individual departments of the school, the School of Biology offers programs leading to the A.B. and A.M. degrees in Biology with requirements as follows:

For the A.B. degree, sixty units of work in Biology, so chosen that there shall be fifteen units from each of three departments of the school. Provision is made for modifying the fifteen-unit departmental requirement to the effect that upon completion of ten units in any department, the student may substitute work in another department upon securing the consent of both departments concerned and of his adviser in the school. The general program must be properly approved. Students are urged to include a summer quarter of work at the Hopkins Marine Station.

For covering the above requirements elections may be made from the courses listed for the purpose by the School of Biology, in the following departments: Anatomy, Bacteriology and Experimental Pathology, Biochemistry, Botany, Entomology, Food Research, Hopkins Marine Station, Paleontology, Physiology, Psychology, and Zoology.

Candidates for the A.M. degree in Biology must fulfill the conditions outlined in the Graduate Study Bulletin, including the completion of a program of advanced study in Biological Science, to be submitted to, and approved by, the Executive Committee of the School of Biology at the time of registration for the degree.

GENERAL BIOLOGY

Leonas Lancelot Burlingame (Executive Director), Harold Heath, Ernest Gale Martin, George James Peirce, Administrative Committee.

The courses attempt to present to beginners by means of lectures, illustrations, demonstrations, and laboratory exercises the fundamentals of Biology in its broadest sense. They include a study of: (1) Protoplasm, the common living substance of all plants and animals; (2) the

organization of cells and their combination into multicellular organisms; (3) the role of green plants in the manufacture of foods; (4) the transformation of foods into the living substance of plants and animals; (5) the liberation and utilization of the chemical energy of foods, chiefly by animals; (6) the sensitivity of protoplasm and its role in correlating the internal processes of the organism on the one hand and relating and adjusting it to its environment on the other; (7) disease and death of organisms; (8) the enrichment of the soil through the decomposition of organic remains and nitrogen fixation; (9) the perpetuation of the species through reproduction; (10) the laws and mechanism of heredity; (11) evolution and adaptation of organisms; (12) the factors controlling the ecological and geographical distribution of organisms; and (13) man's place in nature.

In the laboratory course representative one-celled and many-celled plants and animals are studied with special emphasis on the nature and organization of protoplasm. The organism is examined in its character of chemical machine, synthesizing complex compounds, as in green plants, and decomposing them with liberation of energy, as in animals; with the relations of living things to their non-living environment and to each other finally considered.

There are no prerequisites, and the course is required of all Lower Division students who do not present a high school equivalent, or elect an equal amount of work in one of the biological departments. (See requirements under Biology in Announcement of Lower Division.) Nine units as follows:

1. General Biology.—Lectures.
3 units, autumn and *winter quarters (autumn) MWF 8; (winter) TThS 8
(Burlingame, Doane, Heath, Martin, Peirce, Wilbur)
autumn, 252; winter, 147

2. General Biology.—Laboratory.
3 units, autumn, *winter, and *spring quarters
(Vestal, Irving, and Assistants) MWF 1–4, or TTh 1–4 and S 8–11
autumn, 130 (2 sections); winter, 129 (2 sections); spring, 59

3. General Biology.—Lectures.
3 units, winter and *spring quarters MWF 8
(Abrams, Burlingame, Fisher, Heath, Martin, Terman, Vestal, Wilbur)
winter, 209; spring, 132

ECOLOGY

Arthur Gibson Vestal, Assistant Professor.

103. Environmental Relations.—Lectures on the general subject, with individual field and laboratory study of a particular aspect of local ecology.
5 units, spring quarter (other quarter by arrangement)
(Vestal) Lecture MWF 11
spring, 4

202. Research.
autumn, winter, and spring quarters (Martin)
autumn, 2; winter, 2; spring, 1

203. Special Problems.—Research in ecological relations of local plant or animal communities or of particular groups of organisms.
(Vestal) [By arrangement]
spring, 1

ECONOMIC BIOLOGY

Lawrence Becking, Assistant Professor.
(Dr. Alsberg and Professor Peirce in coöperation)

101. Economic Botany.—A general survey of the subject, dealing chiefly with the more general aspects of a technical study of plant foodstuffs, fibers, wood, drugs, dyes, poisons, spices, resin, rubber, etc. The laboratory work includes some standard methods of microscopical and microchemical analysis of economic plant products. Prerequisites: 9 units of chemistry and one laboratory course in biology.
5 units, autumn and winter quarters (Becking) Lec. TTh 1–2; Lab. MWF 1–4
winter, 8

102. Elementary Limnology.—Designed especially for sanitary engineers, health officers, physicians, and biochemists. Regular methods of plankton analysis, determination of the significant properties of water in relation to plants and animals, visits to ponds, water supplies, etc. Whipple's "Microscopy of Drinking Water" will be used as a guide. One lecture, one laboratory period, one field trip each week.
3 units, winter quarter (Peirce, Becking) [Not given in 1923–24]

201. Economic Botany: Special Problems.—To meet the requirements of the individual student who wants to carry out advanced work in this line either as a major in Botany, Chemistry, Economics, or Civil Engineering (lumber).
(Becking) [By arrangement]
autumn, 4; winter, 2; summer, 3

BOTANY

Douglas Houghton Campbell, LeRoy Abrams, George James Peirce, Professors.
Leonas Lancelot Burlingame, Associate Professor.
Gilbert Morgan Smith, Visiting Associate Professor.
James Ira Wilson McMurphy, Assistant Professor.
Samuel Bonsall Parish, Lecturer on California Botany.
(Assistant Professor Becking in coöperation.)

The Department of Botany aims to provide instruction for two classes of students: (*a*) Students who wish to know something of the structures, life processes, relationships, and uses of plants and to gain some familiarity with the methods of scientific work; and (*b*) professional students who look forward to investigation, teaching or the technical applications of Botany in Plant Breeding, Forestry, Agriculture, Horticulture, Plant Pathology, etc. Courses 1, 2, 3, which present the elements of the more important divisions of botanical study, are designed to meet the needs of both groups of students and must precede all other courses in the depart-

ment, except in the case of students who have received equivalent instruction elsewhere. Courses 10 to 113 are open to students who have had Course 1 or 2 or 3, or the equivalent. It is the aim of these courses to give the student, by means of lectures and references to the literature, a general and summary account of the present state of knowledge, and in the laboratory and the field to afford him an opportunity for a personal acquaintance with plants themselves. Students who have had two or more years' work, may be registered after consultation in Courses 114, 120, 130, 142, 152. The resources of the department afford exceptional opportunity for investigation in a number of fields. Properly qualified students desiring to undertake such investigation should register in Courses 210, 220, 230, 240, 250, after consultation with the instructor concerned.

Major students in the department will be expected to complete 60 units in the department, with Zoology 1. The sixty units should include Courses 1, 2, 3, 10, 11, 20, 21, 110, 111, 30, 31, 140, 141. It is strongly recommended that Courses 10, 11, 110, 111 be taken in the second year.

The Teacher's Recommendation.—Applicants must have completed a minimum of two majors or one major and two minors. A minor in Botany consists of Elementary Botany (Courses 1, 2, 3) and one advanced course, chosen from the following: 10, 11, 20, 110, 30, 140, 141. A major must include the following: Elementary Botany (1, 2, 3), General Fungi (20), General Morphology (10, 11, 110, 111, 112), Systematic Botany (30), Physiology (140 or 141)—a total of 35 units.

Students looking to Forestry or Agriculture as a profession should include Courses 20, 22, 30, 31, 140, 141 as part of their preparation, and the following subjects in other departments: elementary physics, chemistry, geology and physiography, zoology, entomology, economics, and applied mathematics. They should also be able to read French and German.

In the various courses fees are charged approximately sufficient to cover the cost of the perishable materials and syllabus used, as follows: Courses 1, 2, 3, 10, 11, 110, 111, 112, 30, 31, 151, 120, 114, 130, 152, 210–250, $3.00 each; Courses 20, 21, 22, 140, 141, 113, 142, $5.00 each; Course 150, $1.00.

[**General Biology.**—See under Biology, p. 145.]

1. Elementary Botany: Morphology.—This course is designed to be a foundation course. It aims to present a comprehensive view of the entire plant kingdom from the lowest to the highest. The individual types studied will be chosen with reference to their suitability to illustrate the larger steps through which plants have passed in the course of evolution. The hour preceding the lecture on Tuesdays and Thursdays will be spent in the laboratory in study and conference under supervision.

5 units, autumn quarter (Burlingame and Assistants)
Conference TTh 1:05; Lecture TTh 2:05; Laboratory MWF 1:05–3:45
autumn, 32; summer, 12

2. Elementary Botany: Systematic.—Study of the fundamental principles of plant relationships, with special reference to the higher plants. Through the study of representative species and supplementary classification, it is intended to acquaint the student with the more important families of flowering plants.

5 units, winter quarter
(Abrams and Assistants) Lec. TTh 1:05; Lab. MWF 1:05–3:05
winter, 32

3. Elementary Botany: Anatomy and Physiology.—Study of the structure, mainly of the land plants, with a view to understanding the vital processes of living plants and their relations to man. The laboratory work will be supplemented by field work.
5 units, spring quarter
(PEIRCE and ASSISTANTS) Lec. TTh 1:05; Lab. MWF 1:05–3:45
spring, 9

10. Fresh-Water Algae.—Lectures, readings and laboratory work on the morphology and classification of Blue-Green and Green Algae. Prerequisite: Botany 1.
5 units, winter quarter (CAMPBELL) Lec. F 1:05; Lab. MTWTh 1:05–4
winter, 6

11. Marine Algae.—Lectures, readings and laboratory work on the morphology and classification of the Brown and Red Algae. This course is a continuation of Course 10, but may be taken independently. Prerequisite: Botany 1.
5 units, spring quarter (CAMPBELL) Lec. F 1:05; Lab. MTWThF 1:05–4
spring, 4

12. The Algae.—Lectures, field, and laboratory work
5 units, autumn quarter (SMITH)
autumn, 5

20. General Fungi.—Lectures and laboratory work on the morphology and classification of Fungi. Prerequisite: Botany 1.
5 units, autumn quarter (MCMURPHY) Lec.-Lab. MTWThF 1:05–3:45
autumn, 6

21. Fleshy Fungi.—Lectures, laboratory, and field work on the fleshy Fungi ordinarily known as mushrooms, toadstools, etc. Prerequisite: Botany 1.
5 units, winter quarter (MCMURPHY) Lec.-Lab. MTWThF 1:05–3:45
winter, 2

22. Plant Pathology.—Lectures, laboratory, and field work on fungous and other plant diseases. Open only to students who have had Course 20 or its equivalent.
5 units, spring quarter (MCMURPHY) Lec.-Lab. MTWThF 1:05–4:05

30. Systematic Botany.—Classification of the flowering plants with special emphasis on the more complex and difficult groups. Prerequisite: Botany 2 or its equivalent.
5 units, spring quarter (ABRAMS) [Not given in 1923–24]

31. Geographical Distribution and Forest Botany.—Study of the trees and shrubs and the principles of geographical distribution which they illustrate. The laboratory work will be supplemented by work in the field and in the Arboretum.
5 units, autumn quarter
(ABRAMS) Lec. W 1:30; Lab. and Field Work MTThF 1:30–4
autumn, 4

110. Bryophytes.—Lectures and laboratory work on the special morphology and classification of the Bryophytes (Mosses). Prerequisite: Botany 1.
5 units, winter quarter (CAMPBELL) [Not given in 1923–24]

111. Pteridophytes.—Lectures and laboratory work on the special morphology and classification of Pteridophytes (Ferns, Horsetail, Club-mosses). This course is a continuation of Course 110. Prerequisite: Courses 1 and 110.
5 units, spring quarter (CAMPBELL) [Not given in 1923–24]

112. Seed Plants.—Lectures and laboratory work on the general morphology and anatomy of Gymnosperms and Angiosperms. This course is intended to continue and round out the work of Courses 10, 11, 20, 110, 111. It aims to give the student an insight into the origin and relationships of the larger groups of Seed Plants through a study of their Morphology, Embryology, and Comparative Anatomy. Prerequisite: Courses 1 and 110 or 111.
5 units, winter quarter (BURLINGAME) [By arrangement]

113. Cytology and Technique.—(1) Lectures on the structures and functions of the cell, with special reference to the mechanism of inheritance and the practical consequences thereof in plant breeding. (2) Laboratory exercises in (*a*) histological and cytological technique (killing and fixing, embedding, sectioning, staining, etc.); (*b*) study of selected slides illustrating the lecture topics, mitosis, gametogenesis, sporogenesis, etc.
5 units, winter quarter (BURLINGAME) [By arrangement]
winter, 2

114. Advanced Archegoniates.—This course offers opportunity for individual students to continue (along lines of special interest) the work begun in Course 110 or 111. Prerequisites: Elementary Botany and Course 110 or 111 or equivalents.
(CAMPBELL) [By arrangement]

120. Advanced Plant Pathology.—Field and laboratory work on special diseases.
(MCMURPHY) [Hours and credit by arrangement]

130. Advanced Systematic Botany.—Special problems in taxonomy and geographical distribution, with reference to methods of investigation. This course is intended primarily as preliminary training for research work in systematic botany.
(ABRAMS) [Hours and credit by arrangement]
autumn, 1; winter, 1

140. Experimental Plant Physiology.—The production and use of foods. Lectures, laboratory work, and reading. Prerequisite: Course 3 or its equivalent. Knowledge of the elements of physics and chemistry is essential.
5 units, winter quarter (PEIRCE) Lec. TTh 9; Lab. MWF 8–10
winter, 6

141. Experimental Plant Physiology.—Lectures, laboratory work, and reading. Prerequisite: Course 3 or its equivalent. Knowledge of the elements of physics and chemistry essential.
5 units, autumn quarter (PEIRCE) [Not given in 1923–24]

142. Advanced Physiology.—Experimental study of a single problem by one or more individuals. Prerequisites: Elementary Botany and Courses 140 and 141, or their equivalents.
(PEIRCE) [By arrangement]
spring, 2

150. Genetics.—Lectures on inheritance in plants, animals, and man. Prerequisite: Botany 1, Zoology 1, General Biology, or equivalents.
3 units, spring quarter (BURLINGAME) MWF 10
autumn, 8; spring, 23

151. Plant Breeding.—Garden and laboratory work illustrative of the principles and practices underlying modern practice in the propagation and improvement of plants. Prerequisite: Botany 1, Zoology 1 or General Biology, Botany 150, or equivalents.
2 units, spring quarter (BURLINGAME)
winter, 2; spring, 1

152. Problems in Genetics and Plant Breeding.—This course offers an opportunity to continue advanced work along the lines of Course 151.
Any quarter (BURLINGAME) [By arrangement]
winter, 2; spring, 1

210. Research in Morphology.—Students desiring to do original investigation in morphology must have had adequate training in the appropriate courses in special morphology or their equivalents.
(CAMPBELL) [By arrangement]
winter, 2; spring, 3

220. Research in Plant Pathology.
(MCMURPHY) [By arrangement]
summer, 3

230. Research in Taxonomy and Geographical Distribution.
(ABRAMS) [By arrangement]
autumn, 2; winter, 3

240. Research in Physiology.
(PEIRCE) [By arrangement]

250. Research in Cytology and Genetics.—For students who wish to undertake original work in genetics or cytology. Prerequisites: an adequate training in general botany and such special courses as the nature of the work makes necessary.
(BURLINGAME) [By arrangement]
autumn, 2; winter, 2

251. Seminar.
spring quarter (PEIRCE)
spring, 3

[**Economic Biology.**—See under Biology, p. 147.]

CHEMISTRY

*John Maxson Stillman, Professor Emeritus.
Robert Eckles Swain, Edward Curtis Franklin, Lionel Remond Lenox, John Pearce Mitchell, Stewart Woodford Young, Professors.
Hermann Augustus Spoehr, Acting Professor (Summer Quarter).
Carl Lucas Alsberg, Director, Food Research Institute.
William Henry Sloan, Associate Professor.
Albert Frederick Ottomar Germann, Assistant Professor.
George Raymond Cowgill, Acting Assistant Professor (Summer Quarter).
Lyman C. Boynton (Autumn Quarter), Acting Instructor.
William Leroy Burdick, Charles Doak Lowry, Jr., George Sutton Parks, †Norris Watson Rakestraw, Robert Nicolas Wenzel, Instructors.
Ruth Vivia Fulton, Elton Fred Cornell, Teaching Fellows.

1. Elementary Inorganic Chemistry.—Lectures comprising a systematic treatment of elementary principles and of the properties of the more important elements and their compounds. Open to all students, but particularly for students without entrance credit in Chemistry. Students without entrance credit in Chemistry are required to enroll in laboratory Course 2 concurrently.

3 units, autumn and winter quarters
(Mitchell) Lec. (autumn) MWF 8; (Germann) Lec. (winter) TThS 8
autumn, 96; winter, 61

2. Elementary Inorganic Laboratory.—In connection with Course 1. Illustrating fundamental laws and principles of elementary chemistry. Required of students who have not received entrance credit in Chemistry.

3 units, autumn and winter quarters
(Mitchell, Germann, Wenzel) MTW 1–4 or ThF 1–4, and S 9–12
autumn, 59; winter, 37 (2 sections)

3. Elementary Inorganic Chemistry.—Continuation of Chemistry 1. Open to students who have had Courses 1 and 2 or their equivalents.

3 units, spring quarter (Germann) TThS 8
spring, 72

4. General Inorganic Laboratory.—Inorganic preparations and general chemistry. For students with entrance credit or Chemistry 2.

3 units, every quarter
(Mitchell, Germann, Wenzel) MTW 1–4 or ThF 1–4, and S 9–12
autumn, 54; winter, 48 (2 sections); spring, 45; summer, 19

7. General Inorganic Chemistry.—Lectures reviewing elementary principles and covering a systematic treatment of important theories and the properties of the more important elements and their compounds. Open only to students who have offered entrance credit in Chemistry or its equivalent.

2 units, autumn and *summer quarters (Mitchell, Germann) TTh 8
autumn, 101; summer, 19

* Deceased December 13, 1923.
† Absent on leave, 1923–24.

9. General Inorganic Chemistry.—Continuation of Chemistry 7. Open to students who have completed Course 7 or its equivalent.
2 units, winter and *summer quarters (MITCHELL, GERMANN) TTh 8
winter, 107; summer, 22

20. Qualitative Analysis, Lecture and Laboratory.—Open to students who have completed Courses 3 or 9, and 4.
6 units, autumn, *winter and *spring quarters (LENOX, BERGER) 5 afternoons
autumn, 39; winter, 24; spring, 40

101. Principles of Inorganic Chemistry.—Discussion of the elements of chemical theories and of important generalizations in the field of inorganic chemistry. Prerequisite: Chemistry 3 or 9 or an equivalent.
5 units, autumn quarter (PARKS) MTWThF 11
autumn, 44

111. Quantitative Analysis.—Lecture course. Must be taken in conjunction with Course 112.
1 unit, autumn, *winter, *spring and *summer quarters
(SLOAN, BURDICK) TTh 3:05
autumn, 48; winter, 20; spring, 23; summer, 14

112. Quantitative Analysis.—Introductory. Training in manipulation in gravimetric and volumetric methods. Open to students who have completed Course 20. Not open to first-year students. Given in conjunction with Course 111.
4 or 5 units, autumn, *winter, *spring, and *summer quarters
(SLOAN, BURDICK) 4 or 5 afternoons
autumn, 45; winter, 17; spring, 19; summer, 2

114. Quantitative Analysis.—A continuation of Course 112, principally gravimetric methods.
5 units, autumn, *winter, and *spring quarters (SLOAN, BURDICK) 5 afternoons
winter, 10; spring, 4

118. Advanced Quantitative Analysis.—Systematic mineral analysis and volumetric assays of ores of copper, lead, zinc, iron, and manganese. Iron and steel analysis and the analysis of ferro-alloys. Open to students who have completed Courses 112 and 114 and required of all students registering in Division B (Analytical Chemistry).

Students majoring in other departments, who have completed Courses 111 and 112 in Chemistry, may register for three units of work in this course, covering the volumetric portion only.
3 or 5 units, spring quarter (LENOX, BERGER)
autumn, 5

121. Organic Chemistry.—Lectures and reviews on the chemistry of carbon compounds. Open to students who have completed Course 101 or its equivalent.
5 units, winter quarter (FRANKLIN) MTWThF 11
winter, 41

122. Organic Preparations.—Preparation and study of typical carbon compounds. Open in connection with Courses 121 and 123 to students who have completed Course 20.
5 units, winter, *spring and *summer quarters
(FRANKLIN, LOWRY) 5 afternoons
winter, 2; spring, 18; summer, 9

123. Organic Chemistry.—Continuation of Chemistry 121.
5 units, spring quarter (FRANKLIN) MTWThF 11
spring, 40

124. Advanced Organic Laboratory.—Combustion analysis, use of the chemical literature, special preparations. Open to students who have completed Chemistry 122 or equivalent and who have a reading knowledge of German.

3 to 5 units, winter, *spring and *summer quarters
(LOWRY) [Hours by arrangement]
spring, 1

125. Advanced Organic Lectures.—Advanced topics in organic chemistry, including stereochemistry. Open to students who have completed Courses 101, 121, 123.

3 units, spring quarter in alternate years
(FRANKLIN) [Given in 1923–24]
spring, 19

127. Elementary Organic Chemistry.—A condensed lecture course in organic chemistry, offered particularly for students in biology and medicine, but open to all students who have completed Course 20. Not for Chemistry majors.

5 units, winter and *summer quarters
(LOWRY) (winter) MTWThF 8; (summer) MTWThF 10
winter, 33; summer, 13

128. Organic Chemistry.—A laboratory course designed especially to accompany Course 127. Not for Chemistry majors.

3 units, winter quarter (LOWRY) 3 afternoons
winter, 5; summer, 2

131, 132. Chemistry of Carbohydrates.

3 units, summer quarter (SPOEHR)
summer, 15

141. Biochemistry.—Lectures on the chemical composition and action of the tissues and secretions of the animal body, the digestion of foods, and the elimination of waste products. Open to students who have completed Courses 121 and 123, or 127.

5 units, autumn and *summer quarters (SWAIN, COWGILL) MTWThF 8
autumn, 27; summer, 33

142. Biochemistry.—A laboratory course including a preliminary study of the proteins, carbohydrates, and fats, with the action of the various digestive fluids upon them; followed by a chemical examination of the bile, blood, milk, the chief tissues of the animal body, and the excretions. The latter half of the course is devoted to quantitative analytical methods. In connection with Course 141.

4 units, autumn and *summer quarters (SWAIN, BOYNTON, COWGILL) 4 afternoons
autumn, 41; summer, 28

143. Physical Chemistry of Vital Phenomena.—A lecture and laboratory course dealing with such subjects as the permeability of animal and plant membranes, osmotic pressure, cryoscopic measurements, colloids, hydrogen ion concentration, and similar topics. Particularly for students in biology and medicine. Two lectures and one laboratory period.

3 units, winter quarter [Not given in 1923–24]

144. Special Methods in the Analysis of Blood and Urine.—Prerequisites: Courses 141 and 142.

2 to 5 units, autumn, *winter, *spring, and *summer quarters
(SWAIN, COWGILL) 2 to 5 afternoons
summer, 7

151. Advanced Inorganic Chemistry.—Advanced topics in inorganic chemistry, including the rarer elements, structure of the atom, radioactivity, catalysis, and the chemistry of the higher order compounds.

3 units, spring quarter (SWAIN) MWF 11
spring, 22

153. Chemical Calculations.—Consists of a series of problems designed to review the fundamental principles of analytical and theoretical chemistry. Open to juniors and seniors who have had Courses 101, 111, 112. A series of more advanced problems will be given by arrangement.
3 units, spring quarter (MITCHELL) MWF 8
spring, 3

157. Chemistry of Gases.—A lecture course dealing with the history, preparation, purification, and physical and chemical properties of gaseous substances. Open to students who have completed Course 101.
2 units, winter quarter (GERMANN) TTh 10
winter, 20

158. Manipulation of Gases.—A laboratory course in which the student is expected to become familiar with methods of preparation and purification of gases and the designing of laboratory apparatus for the study of the properties of gases. Prerequisite: Courses 111, 112.
2 or more units, spring quarter (GERMANN) 2 or more afternoons
winter, 1; spring, 2

171. General Physical Chemistry.—Lectures covering as far as possible the whole field of physical chemistry. Open to students who have completed Chemistry 101, 111, 112, 121, Course 20 in mathematics and Courses 1, 2, 3, 20, in physics, or their equivalent.
5 units, autumn quarter (YOUNG) MTWThF 8
autumn, 36

173. General Physical Chemistry.—Continuation of Chemistry 171.
5 units, winter quarter (YOUNG) MTWThF 8
winter, 32

174. Physico-Chemistry Measurements.—Exercises in the practice of physico-chemical laboratory methods. Open to students who have completed or are taking Courses 171, 173, and who have completed Courses 112, 121, 122, and 123. In special cases and by special arrangement this course will be open to students who have completed Courses 112, 121, 122, and 123, but have omitted Courses 171, 173.
5 units, every quarter (YOUNG, PARKS) 5 afternoons
autumn, 10; winter, 11; spring, 5

201. Seminar in Chemistry.—Discussion of assigned topics in theoretical and general chemistry. Open to graduate students, and to advanced undergraduates in chemistry, with the approval of the Faculty in Chemistry.
1 unit, every quarter (FRANKLIN, SWAIN) W 4
autumn, 14; winter, 19; summer, 3

205. Thermodynamics and Chemistry.—A problem and reading course, with the study of the original researches on which are based the laws of physical chemistry, and the demonstration, by problems, of the practical application of these laws. Prerequisites: Chemistry 171, 173, and a knowledge of calculus.
3 units, winter quarter (PARKS) [By arrangement]
winter, 3

207. Thermodynamics and Chemistry.—Continuation of Chemistry 205.
3 units, winter quarter (PARKS) [By arrangement]
spring, 1

210. Advanced and Special Courses.—With reference to the particular aims and ambitions of the student and by arrangement with the professors of this department, advanced and special courses in laboratory and research work are open to students who have completed the necessary prerequisites.

autumn, 24 (7 groups); winter, 31 (7 groups); spring, 30 (8 groups); summer, 10 (5 groups)

Candidates for the degree of Bachelor of Arts in Chemistry must offer the equivalent of two years of college work in German, or two years of French and one year of German. (For advanced degrees a good reading knowledge of German is also required.) The election of German in the Lower Division is advised for those who have not had the equivalent of two years of college work in the subject.

Qualified students may also pursue investigation of problems in inorganic, organic, physical, analytical, or physiological chemistry under the direction of any professor with whom arrangement is made. For all such advanced, special, or research work, students will register and enroll under Course 210, giving the name of the professor under whom the work is to be carried on and for such number of units of credit as may be agreed upon.

Students intending to major in the Department of Chemistry are advised to offer entrance credit in chemistry, physics, mathematics (including solid geometry and trigonometry for the chemical engineering course) and German (2 units). Entrance credit in biological science will also be advantageous. Students without these entrance credits may experience some difficulty, especially in the chemical engineering course, in conforming to the departmental requirements for graduation. (Consult the *Registration Manual for the Lower Division.*)

In qualifying for the Degree of Bachelor of Arts in Chemistry, major students should complete one of the following curricula:

A. General Chemistry

(Recommended for all who are studying the science of chemistry particularly as a basis for teaching or scientific research.)

First and Second Years.—Lower Division requirements, including Chemistry 1, 2, 3, 4, or 4, 7, 9, and 20; Physics 1, 2, 3, 20; Mathematics 20 or its equivalent; and German or French.

Third and Fourth Years.—Chemistry 101, 111, 112, 121, 122, 123, 171, 173, and 174 or 210.

B. Analytical Chemistry

(Particularly adapted to meet the needs of students who are looking forward to the career of analytical chemist.)

First and Second Years.—Lower Division requirements, including Chemistry 1, 2, 3, 4, or 4, 7, 9, and 20; Physics 1, 2, 3, 20; Mathematics 20 or its equivalent; and German or French.

Third and Fourth Years.—Chemistry 101, 111, 112, 114, 118, 121, 122, 123, 171, 173, and 174 or 210; Mineralogy 122.

C. Biological Chemistry

(Particularly adapted to students who are looking forward to work along medical or biochemical lines.)

First and Second Years.—Lower Division requirements, including Chemistry 1, 2, 3, 4, or 4, 7, 9, and 20; Physics 1, 2, 3, 20; Mathematics 20 or its equivalent; and German or French.

Third and Fourth Years.—Chemistry 101, 111, 112, 121, 122, 123, 141, 142, and 174 or 210; Physiology 101 or 102; Bacteriology 1 or 201.

D. Chemical Engineering

(Intended especially for students who are working toward the degree of Engineer in Chemical Engineering and who desire to fit themselves for positions of responsibility in connection with the administration of industries involving chemical knowledge and skill.)

This curriculum comprises four years of the necessary six years' work leading to the advanced degree of Engineer in Chemical Engineering. Candidates in this course receive the degree of A.B. in Chemistry on completion of the following requirements:

First and Second Years.—Lower Division requirements, including Chemistry 1, 2, 3, 4, or 4, 7, 9, and 20; Physics 11, 12, 13, 14; Applied Mathematics 1*a*, 1*b*, 2*a*; Engineering 1, 2.

Third and Fourth Years.—Chemistry 101, 111, 112, 114, 121, 122, 123, 171, 173; Applied Mathematics 2*b*, 3*a*, 3*b*; Engineering 3, 106, 110; Mechanical Engineering 12.

Advanced Degrees

After October 1, 1926, candidates for the degree of Engineer in Chemical Engineering will be required to complete two years of graduate work in addition to the above requirements for the A.B. degree, as given under Curriculum D, and also a thesis based on laboratory work, along with the following courses: Chemistry 125, 151, 174, 181, 205; Mechanical Engineering 121, 123, 132, 133, 236; Electrical Engineering 102, 103, 122, 123. A reading knowledge of both German and French will also be required.

Prior to October 1, 1926, in addition to the requirements for the A.B. degree in Chemical Engineering, this degree will be awarded upon the completion of three quarters of graduate work as outlined in the *Announcement of Courses* for 1920–21, including the following: Chemistry 174, Mechanical Engineering 121, 123, 236, and a thesis based on laboratory work.

Applicants for the degree of Master of Arts in Chemistry will be expected to complete, in addition to the requirements for the Bachelor's degree, the equivalent of forty-five units of work in the University, approximately two-thirds of which must be in the department. This work will include a thesis based on laboratory work and Courses 171, 173, and 174, if these were not included in the undergraduate work.

Candidates for the degree of Doctor of Philosophy in Chemistry, after the completion of the equivalent of the requirements for the degree of Master of Arts or Engineer, will follow such courses as are approved by the Department Faculty, subject to general University regulations.

The Teacher's Recommendation.—The minimum requirements for the High School Teacher's Recommendation in Chemistry are as follows:

(*a*). For teaching chemistry as a minor high school subject: Courses

1, 2, 3, 4, or 4, 7, 9 (general inorganic: lectures and laboratory); 20, (qualitative analysis); 101 (principles of chemistry); and either 121 and 123 or 127 and 128 (organic chemistry). Total, 26 to 33 units.

(*b.*) For teaching chemistry as a major high school subject: Courses 1, 2, 3, 4, or 4, 7, 9 (general inorganic lectures and laboratory); 20, (qualitative analysis); 111, 112 (quantitative analysis); 101 (principles of chemistry); 121, 123 (organic chemistry). Total, 34 to 39 units.

LABORATORY FEES.—A charge of $25 per quarter ($10 of which is returnable, less bills for breakage and loss of apparatus) is made to students in Courses 2 and 4; for three units credit in Chemistry the fee is $20 per quarter (with $10 returnable less breakage); for all other courses of not more than six units credit each the fee is $30 per quarter (of which $15 is returnable less bills for breakage and loss of apparatus).

CITIZENSHIP

EDGAR EUGENE ROBINSON (History), Director.

HAROLD CHAPMAN BROWN (Philosophy), WALTER GREENWOOD BEACH (Social Science), EDWIN ANGELL COTTRELL (Political Science), MARION RICE KIRKWOOD (Law), VICTOR J. WEST (Political Science), ALBERT CONSER WHITAKER (Economics), Advisory Committee.

EPHRAIM DOUGLASS ADAMS (History), WALTER GREENWOOD BEACH (Social Science), ELIOT BLACKWELDER (Geology), HAROLD CHAPMAN BROWN (Philosophy), ARTHUR MARTIN CATHCART (Law), EDWIN ANGELL COTTRELL (Political Science), WILLIAM FREDERICK DURAND (Mechanical Engineering), EDWARD MASLIN HULME (History), ELIOT JONES (Economics), MARION RICE KIRKWOOD (Law), EDGAR EUGENE ROBINSON (History), JESSE BRUNDAGE SEARS (Education), GRAHAM HENRY STUART (Political Science), LEWIS MADISON TERMAN (Psychology), VICTOR J. WEST (Political Science), RAY LYMAN WILBUR (President), Lecturers.

HENRY STOW ANDERSON, MARGARET ELAINE BENNETT, FLORA MAY FEARING, JOSEPH GREGORY MAYTIN, Instructors.

1–3. Problems of Citizenship.—A general introductory course required of all students in their first year. Designed to present the salient features in the bases and background of present-day society; to consider the place of education in modern life and the political equipment of the citizen; and to examine in detail the fundamental political, social, and economic problems of the American people.

Attention is given the following: (1) Bases of Civilization, including such subdivisions as Physical Environment of Modern Man, Man's Conquest of Nature, Science and the Scientific Method, Fundamental Social Institutions, Races of Mankind; (2) Historical Development of American Society, including such subdivisions as European Expansion and Exploration of the Americas, Migrations of Peoples, Beginnings and Development of an American People, National States of the Modern Period; (3) Political Equipment of the Citizen, including such sub-

divisions as Place of Education in Modern Life, Individual and Political Liberty, Origin and Development of Democracy, Public Opinion, Popular Control in Government; (4) Political Institutions and Problems, including such subdivisions as the Nature of State and Government, Political Parties, Colonialism, Local Government, Problems of Popular Control and Efficiency; (5) Economic and Social Institutions and Problems, including such subdivisions as Industrial Combinations, Regulation of Public Utilities, Foreign Trade, Conservation, Immigration; (6) Education for Citizenship, including such subdivisions as Agencies for Publicity, the Development of Community Life, Opportunities of an Individual in a Democracy.

Lectures by various members of the faculty, and discussion groups in charge of instructors in Citizenship.

4 units, autumn, winter, and spring quarters
(Fourth hour by arrangement) MTW 10
autumn, 542; winter, 502; spring, 449

CLASSICAL LITERATURE

AUGUSTUS TABER MURRAY, HENRY RUSHTON FAIRCLOUGH, Professors.
JEFFERSON ELMORE, BENJAMIN OLIVER FOSTER, ERNEST WHITNEY MARTIN, Associate Professors.
COLLICE HENRY, HELEN KATHERINE SCHARDIN, Assistants in Instruction.

The Department of Classical Literature has for its aim the interpretation in the broadest sense of the civilizations of Greece and Rome. It accepts as major students those who wish to be trained in Greek and Latin as a preparation for graduate work either in this University or elsewhere; those who wish to secure teacher's certificates in the classical languages; and those who, without intending to specialize in Greek or in Latin, wish to make their work in the University conform to the traditional arts course. Either Greek or Latin may be chosen for major work.

Students who have had no Greek before entering the University may begin their study of the language in any quarter in introductory courses which are open to students in all departments of the University. Students who offer Greek on entrance will be registered in classes adapted to their needs.

In addition to the courses in the Greek and Latin languages, the department offers courses in Classical Literature, History, Archaeology, Art, and allied subjects, which, as indicated below, may be taken by major students as a part of their required work, presupposing no knowledge of the Greek and Latin languages, and are open, unless otherwise stated, to students in all departments of the University.

The department offers three majors with a normal requirement of forty-five credit units, as follows: (1) Classical Literature, Greek; (2) Classical Literature, Latin; and (3) Classical Literature. For the first of these the student must have completed thirty units in courses in the Greek language, plus fifteen units in the general courses offered by the department; for the second, thirty units in courses in the Latin language (beyond Course B3), plus fifteen units from the general courses; and for

the third, either thirty units in courses in the Greek language plus fifteen units in Latin, or thirty units in Latin plus fifteen units in Greek.

The completion of the major requirements for graduation carries with it the department recommendation for the teacher's certificate, provided that the Teacher's Course in the language chosen has been included in the work offered. If students in other departments wish to secure a teaching major or minor in Latin or Greek, some member of the department should be consulted.

A. Greek Courses

A1a. Elementary Greek.—Introduction to Greek through Homer. Forms; elements of Greek, Homeric world-lists; writing of simple sentences; reading of Book I of the Iliad.
3 or 5 units, spring and *summer quarters (Martin) MWF 9
winter, 7; summer, 7

A1b. Elementary Greek.—Introduction to Greek through Attic prose. Essential forms; elements of Greek syntax; word-lists from Xenophon; writing of simple sentences; dictation; reading of easy Greek prose.
3 or 5 units, autumn and winter quarters TTh 8
(Martin) [Third hour by arrangement]
spring, 6

A1c. Elementary Greek.—Introduction to Greek through New Testament Greek. Word-lists; writing of simple sentences; reading of the Gospel of John.
3 or 5 units, autumn and winter quarters (Murray) MWF 1:05
autumn, 6; winter, 8

A2a. Homer.—Review of forms and grammar; reading of selections from the Iliad. Open to those who have had A1*a*.
3 or 5 units, winter quarter (Martin) MWF 9
autumn, 6; winter, 7

A2b. Xenophon.—Review of Greek Grammar; reading of selections from the Anabasis. Open to those who have had A1*b*, A1*c*, or equivalent.
3 or 5 units, spring quarter TTh 8
(Martin) [Third hour by arrangement]
winter, 6; spring, 3

A2c. New Testament.—Review of Greek Grammar; reading of the Gospel of Mark and the Acts of the Apostles. Open to those who have had A1*b*, A1*c*, or equivalent.
3 or 5 units, winter quarter (Murray) MWF 1:05
spring, 4

A3a. Homer (continued).—Rapid reading of selected books from the Odyssey; informal discussion of Homeric problems, life, and criticism. Open to those who have had A2*a*, 2*b*, 2*c*, or equivalent.
3 or 5 units, spring quarter (Murray) MWF 9

A3b. Plato.—Systematic review of Greek syntax; practical exercises, written and oral; reading of Cebes' *Tablet*, Plato's *Apology* and *Crito*. Open to those who have had A2*a*, 2*b*, 2*c*, or equivalent.
5 units, spring quarter (Martin) MTWThF 1:05
summer, 2

A3c. Attic Prose Writers.
3 units, spring quarter (Murray)
spring, 3

A13. Individual Work.—Students and instructors meet each week for free reading in Greek suited to the needs of the individual.
1 to 3 units, each quarter (FAIRCLOUGH, MURRAY, MARTIN) [By arrangement]
autumn, 5 (2 groups); winter, 13 (2 groups); spring, 15 (2 groups); summer, 2

A14. Prose Composition.—Exercises adapted to the particular needs of the individual student. Open to those who have had one year of high school Greek, or have taken Courses A1*a*–A3*a* or the equivalent.
2 units, each quarter (MURRAY, MARTIN) [By arrangement]
winter, 9; spring, 5

[NOTE.—Three courses (9 or 15 units) chosen from the above with reference to the student's taste and preparation, constitute the first year's work in Greek for those who have had no Greek before entering college, and may be counted toward the fulfilment of the foreign language requirement of the Lower Division. It is strongly urged that this work be accomplished, where possible, during the first two years of residence, and especially by those who plan to become Greek majors in Classical Literature.]

A50. Greek Historians.—Selections from Herodotus; Thucydides, Book VI; Xenophon, Hellenica; study of the Greek Historians. Open to those who have had A3*a*, 3*b*, or equivalent.
3 units, autumn quarter (MARTIN) [By arrangement]

A51. Rapid Reading.—Lucian's *Vera Historia* and selected orations of Lysias. Open to those who have had A3*a*, 3*b*, or equivalent.
2 units, autumn quarter (MARTIN) [By arrangement]

A52. Introduction to Greek Poetry.—Selections from the Greek lyric poets. Open to those who have had A50, 51, or equivalent.
units, winter quarter (FAIRCLOUGH) MWF 8
winter, 3

A53. Rapid Reading.—Selections from the Greek Anthology and Bacchylides. Open to those who have had A50, 51, or equivalent.
2 units, winter quarter (MARTIN) [By arrangement]

A54. Introduction to Greek Tragedy.—Euripides' *Alcestis* and Sophocles' *Antigone*. Open to those who have had A52, 53, or equivalent.
3 units, spring quarter (MARTIN) MWF 8

A55. Rapid Reading.—Greek comedy. Selections from Aristophanes and Menander. Open to those who have had A52, 53, or equivalent.
2 units, spring quarter (MARTIN) [By arrangement]
[NOTE.—Courses A50–55 (9 or 15 units) constitute the second year's work in Greek for those who begin their Greek in the University.]

A101. Æschylus.—Reading of *Prometheus Bound* and *Agamemnon;* lectures.
3 units, autumn quarter (MURRAY) [By arrangement]

A102. Plato.—Reading of the Republic, Books I and II; lectures.
3 units, winter quarter (MURRAY) [By arrangement]

A103. Demosthenes.—Reading of the *De Corona;* sight translation of *Æschines Against Ctesiphon.*
3 units, spring quarter (MURRAY) [By arrangement]
autumn, 5

A110. Theocritus.—Reading of the idylls in Greek and a survey of pastoral poetry in ancient and modern literature.
2 units, autumn quarter (FAIRCLOUGH) TTh 10

A111. Pausanias.—Reading of Book I and selections from the others. Study of the topography and monuments of Athens, Delphi, Corinth, and Olympia.
2 units, autumn quarter (MARTIN) [By arrangement]

A112. Later Greek Epic.—Rapid reading in the *Argonautica* of Apollonius Rhodius and in the *Posthomerica* of Quintus Smyrnaeus.
2 units, summer quarter (MARTIN) [Not given in 1923–24]

A200. Teachers' Course.—Lectures on methods, with practical training.
2 units, spring quarter (MARTIN) S 9 or by arrangement

A220. Modern Greek.—Grammar (Rangabe); reading of easy texts.
2 units, winter and spring quarters
(FAIRCLOUGH, MARTIN) [Not given in 1923–24]

A250 (B250). Journal Club.—Instructors and advanced major students meet each week for the discussion of journals and new books of interest to classical students.
1 unit, autumn and winter quarters (FAIRCLOUGH) [By arrangement]

A280. Greek Seminar.—For the meeting of graduate students and advanced major students each week during the year 1923–24 to read the plays of Æschylus and discuss papers and reports presented by the members.
1 to 3 units, autumn, winter, and spring quarters (MURRAY) [By arrangement]
autumn, 3; winter, 2; spring, 1

B. LATIN COURSES

B1. Introduction to Latin.—Grammar and exercises. For students who have had no Latin and may be taken (with B2–B6) in fulfilment of the foreign language requirement of the Lower Division.
5 units, autumn quarter (SCHARDIN) MTWThF 1
autumn, 9

B2. Introduction to Latin (continued).—Reading of easy prose, exercises in composition, Caesar begun.
5 units, winter quarter (SCHARDIN) MTWThF 1
winter, 5

B3. Introduction to Latin (concluded).—Caesar's Gallic War, Books I–IV, or selections from the Gallic and Civil Wars; exercises in composition.
5 units, spring quarter (SCHARDIN) MTWThF 1
spring, 4

B4. Cicero.—Selected orations. Open to students who have had two years of high school Latin, and may be taken (with B5 and B6) in fulfilment of the foreign language requirement of the Lower Division.
3 units, autumn quarter (ELMORE) MWF 11
autumn, 2

B5. Virgil.—Selected books of the Æneid. Open to students who have had two years of high school Latin.
3 units, winter and *summer quarters (FOSTER) MWF 9
winter, 4; summer, 3

B6. Virgil.—A continuation of B5, but may be taken by any student who has had two years of high school Latin.
3 units, spring quarter (FOSTER) MWF 9
spring, 6

B14. Terence and Cicero.—The *Andria* of Terence and the *De Senectute* of Cicero. Open to those who have had three years of high school Latin, or have taken B4–6.
4 units, autumn quarter (Foster) MTWF 9
autumn, 8

B15. Catullus and Horace.—Selections from Catullus and from the *Odes* and *Epodes* of Horace. Open to those who have had three years of high school Latin or have taken B4–6.
3 units, winter and *summer quarters (Elmore, Foster) MWF 9
winter, 9; summer, 6

B16. Livy.—Books XXI and XXII. The war with Hannibal to the battle of Cannæ. Open to those who have had three years of high school Latin, or have taken B4–6.
3 units, spring quarter (Foster) MWF 9
spring, 8

B25. Roman Law.—The *Institutes* of Gaius or of Justinian are read both as a training in language and as an introduction to the main principles of Roman law. The course is useful to all who desire a first-hand knowledge of this law and of the origins of European social institutions. Open to those who have had three years of high school Latin.
3 units, autumn and winter quarters (Fairclough) [Not given in 1923–24]

B29. Prose Composition.—The exercises are not based on a Latin text, but are drawn from present-day affairs and events with the aim of imparting some facility in original composition. Open to those who have had three years of high school Latin, or have taken Courses B4–6.
2 units, autumn and winter quarters (Elmore) TTh 9
autumn, 5; winter, 5

B40. Horace.—*Satires* and *Epistles.* Attention is directed especially to the style and subject-matter, to Horace's influence on Latin literature, and to the salient features of the Augustan Age. Open to those who have had B14–16 or an equivalent.
3 units, autumn quarter (Fairclough) MWF 8
autumn, 2

B41. Tacitus.—Annals XIII–XVI. The life and times of the Emperor Nero. Open to those who have had B14–16 or an equivalent.
3 units, winter quarter (Foster) MWF 8
winter, 2

B103. Cicero.—Selections from the correspondence of Cicero, illustrative of the man and his age. Open to those who have had two years of college Latin.
3 units, autumn quarter (Foster) [Not given in 1923–24]

B116. Lucretius.
4 units, autumn quarter (Foster)
autumn, 5

B118. Pliny's Letters.
2 units, autumn quarter (Foster)
autumn, 2

B124. Juvenal and Martial.—The first, third, and tenth satires of Juvenal and selected epigrams of Martial. Open to those who have had two years of college Latin.
3 units, winter quarter (FOSTER) [Not given in 1923–24]

B136. Roman Comedy.—The *Captivi* and *Rudens* of Plautus and either his *Trinummus* or the *Phormio* of Terence. Open to those who have had two years of college Latin.
4 units, autumn quarter (FOSTER) [Not given in 1923–24]

B138. Petronius and Apuleius.—The *Cena Trimalchionis* and selections from the *Metamorphoses*.
3 units, winter quarter (FOSTER) MWF 11
winter, 5

B145. Medieval Latin.—Reading of representative texts with informal discussions. Intended for Latin students interested in the later development of the language and for English and history students working in the medieval field. Not counted in fulfilment of major requirements of the department.
3 units, spring quarter (ELMORE) MWF 11

B200. Teachers' Course.—Lectures and conferences on methods of teaching Latin. Open only to advanced students.
2 units, spring quarter (ELMORE) TTh 11

B225. Latin Epigraphy.—Lectures, with practice in the reading of inscriptions and in the use of the Corpus. Primarily for graduate students.
2 units, winter quarter (FAIRCLOUGH) [By arrangement]
winter, 2; summer, 8

B230. Latin Palæography.—The ancient and the medieval book, with practical exercises in the reading of facsimiles.
2 units, autumn quarter (FOSTER) TTh 3

B250 (A250). Journal Club.

B280. Latin Seminar.—Caesar's *Commentaries on the Gallic War* will be used as the basis of an introduction to the methods of text-criticism and interpretation. Practice in the decipherment and collation of mss. from facsimiles and in the use of the apparatus criticus. Open to qualified graduates.
4 units, summer quarter (FOSTER) MF 2:15–4:05
summer, 6

B281. Latin Seminar.—Satire and Lyric, the works of Horace being the basis of study. Students should provide themselves in advance with the Oxford text of Horace.
4 units, autumn and winter quarters (FAIRCLOUGH) TTh 1–3
autumn, 3; winter, 3

B282. Latin Seminar.—The elegiac poets. Lectures on the development of elegiac poetry among the Greeks and Romans; reading and interpretation of the elegiac poems of Catullus, Tibullus, and Propertius.
4 units, spring quarter (FOSTER) TTh 2:15–4:05
spring, 6

B283. Latin Seminar.—The Æneid of Virgil is studied in its entirety as a work of art, with interpretation of selected passages, and some attention given to the poet's influence on medieval and modern literature. Open to qualified graduates.
4 units, autumn and winter quarters (FAIRCLOUGH) [Not given in 1923–24]

B284. Latin Seminar.—Study of Roman municipal institutions. Based on the extant fragments of municipal charters, the Municipal Law of Julius Caesar and other inscriptions, and their literary sources. Intended for students of Latin and others interested in the history of institutions.
3 units, summer quarter (ELMORE) MWF 2:05–3:05

C. GENERAL COURSES

C1. History of Greece.—Outline course, from the earliest period to 30 B. C. Preliminary survey of the Mediterranean background. Open to all students.
3 units, autumn quarter (ELMORE, MARTIN) MWF 8
autumn, 63

C2. Greek History A.—From the earliest times to the end of the Persian wars. Lectures, with a study of Herodotus in English translation.
3 units, autumn quarter (MARTIN) MWF 11
winter, 48

C3. Greek History B.—The Fifth Century. From the end of the Persian wars to the fall of the Athenian empire. Lectures, with a study of Plutarch and Thucydides in English translations.
3 units, winter quarter (MARTIN) MWF 11

C4. Greek History C.—The Fourth Century. From the fall of Athens to the death of Alexander. Lectures, with a study of Xenophon, Plutarch, Demosthenes, and Arrian in English translations.
3 units, spring quarter (MARTIN) MWF 11
spring, 84

C5. History of Rome.—From the earliest times to the fall of the Western empire. Development of Roman imperialism and the relation of the empire to medieval and modern history. Open to all students.
3 units, spring quarter (ELMORE) [Not given in 1923–24]

C6. History of Roman Civilization.—Study of the conditions of Roman life and comparisons with those of our own. Features of Roman civilization that have survived and influenced the present. Open to all students.
3 units, winter quarter (ELMORE) MWF 8
winter, 63

C8. Roman Political and Municipal Institutions.—Brief survey of the government of Rome. Development of municipalities in the Roman Empire.
2 units, winter quarter (ELMORE) TTh 10
winter, 25

C20. Greek Literature, Poets.—Lectures; reading in translations of selections from the greater Greek poets, with some reference to their influence on later literature. Open to all students.
3 units, autumn quarter (MARTIN) [Not given in 1923–24]

C21. Greek Literature, Poets.—(Continued.)
3 units, winter quarter (MARTIN) [Not given in 1923–24]

C22. Greek Literature, Prose Writers.—Lectures; reading in translations of selections from Herodotus, Thucydides, Xenophon, Plato, Demosthenes, Plutarch, and Lucian. Open to all students.
3 units, spring quarter (MARTIN) [Not given in 1923–24]

C24. The Greek Epic.—Lectures on the poetry of Homer, with reading of both *Iliad* and *Odyssey* in English. Open to all students.
3 units, winter quarter (MURRAY) MWF 9
winter, 18

C25. Greek Tragedy.—Lectures on the art of tragedy among the Greeks, with the study of selected plays in translation.
3 units, autumn quarter (MURRAY) MWF 10
spring, 77; summer, 18

C36. New Testament Literature.—Lectures on the origin, authorship, and characteristics of certain books of the New Testament. Open to all students.
3 units, autumn quarter (MURRAY) MWF 10
autumn, 8

C37. Latin Poets.—Certain of the classical poets (including Plautus, Terence, Lucretius, Catullus, Virgil, Horace, Propertius, Juvenal, and Martial, will be studied in English translations. Lectures, with assigned reading and brief reports. Open to all students.
2 units, winter quarter (FOSTER) TTh 8
winter, 37; summer, 14

C38. Latin Prose Writers.—Some of the more important writers of Latin prose, such as Cicero, Caesar, Livy, Seneca and Tacitus, and if time permits, the younger Pliny, Petronius, and Apuleius, will be studied in English translations. Lectures, with assigned reading and brief reports. Open to all students.
2 units, spring quarter (FOSTER) TTh 8
autumn, 1; spring, 52

C39. Seminar in Ancient History.—Investigation of special problems in Greek and Roman History. Open to a limited number of qualified students.
3 units, spring quarter (ELMORE) MWF 11

C40. Prose Fiction of the Greeks and Romans.—Origin and development of the genre as illustrated by Xenophon, Lucian, Longus, Heliodorus, and Achilles Tatius and by Petronius and Apuleius. Open to all students.
2 units, summer quarter (FOSTER) [Not given in 1923–24]

C41. Greek and Roman Lyric Poetry.—Lectures with assigned reading. Open to students above the first year.
2 units, winter quarter (FAIRCLOUGH) MW 9

C43. Greek Masterpieces.
3 units, summer quarter (MARTIN)
summer, 30

C44. Greek Myths.—The more important myths and legendary characters of early Greece are traced through Greek literature, with some reference to their treatment in later literature. Lectures with assigned reading. Open to all students.
2 units, summer quarter (Martin) TTh 11
summer, 38

C44a. Greek Religion.
2 units, summer quarter (Murray)
summer, 15

C48. Greek and Roman Æsthetics.—Based chiefly on the *Phædrus* of Plato, Aristotle's *Poetics* and the *Ars Poetica* of Horace. An attempt to show what Greek and Roman writers contributed to æsthetic theory and to illustrate some of their principles of literary criticism. Open to upper classmen and to others on permission of the instructor.
2 units, spring quarter (Elmore) [Not given in 1923–24]

C50. Classical Art and Archæology.—Lectures, illustrated with photographs and lantern slides. Open to all students.

a. Greek.
2 units, autumn quarter (Fairclough) TTh 11
autumn, 68

b. Roman.
2 units, winter quarter (Fairclough) TTh 11
winter, 51

ECONOMICS

Murray Shipley Wildman, Walter Greenwood Beach, Eliot Jones, Harley Leist Lutz, Albert Conser Whitaker, Professors.
Don Carlos Barrett, Acting Professor (Summer Quarter).
Joseph Stancliffe Davis, Alonzo Englebert Taylor, Directors of the Food Research Institute.
John Bennett Canning, Assistant Professor.
Margaret Mulford Lothrop, Nathaniel Sanders, Instructors.
Connell Clifford, Hugh McD. Clokie, Lewis Everett Severson, Acting Instructors.
Philip Meader Brown, Assistant.
Eliot Grinnell Mears, Lecturer.

Nature and Purpose.—The courses offered in this department are not confined to the subject of Economics as properly defined, but include a number of topics often given in departments of sociology and schools of commerce. In the conduct of all the courses, however, the economic factors are emphasized, and their importance to our social institutions developed. The primary purpose of the instruction is to discover the elements of sound public policy rather than to train for a vocation.

Graduation.—To arrange a program of study leading to the degree of Bachelor of Arts in Economics, a student should consult with his departmental adviser in order that his program of work may be adapted to his special needs or interests. In making such a program at least a

fourth of the required 180 units must be selected from courses offered in this department.

In addition to courses given in this department, certain others offered in political science, history, law, and philosophy will be found helpful and should be included in the student's program.

Course 1 (Economic Problems) and Course 100 (Principles of Economics) are required of all candidates for graduation in Economics.

TEACHER'S CERTIFICATE.—To obtain a teacher's certificate with the major subject in this department, a student will be required to secure credit for 45 units of work in Economics. For a certificate with a minor in this department, credit for 25 units is required.

JOURNALISM.—Students, majors in this department, who desire to prepare for journalism are referred to the announcement on page 218.

SECRETARIAL TRAINING.—See courses at end of this list (p. 173.)

COURSES PRIMARILY FOR LOWER DIVISION STUDENTS

1. Economic Problems.—This is an elementary study of problems involving the production, exchange, and use of wealth. An attempt will be made to give the student an approach to the economic issues of the day, with an intelligent appreciation of the factors which make for sound public policy.

4 units, autumn and *summer quarters (WILDMAN) MTWTh 10
autumn, 71; summer, 29

2. Social Problems.—This is an elementary study of the problems that arise out of the relations of people to each other as these relations express themselves in important social institutions.

4 units, autumn quarter (BEACH) MTWTh 10
autumn, 10

3. Elementary Accounting.—Development of accounting; theory of debit and credit; bookkeeping forms and practice; preparation of balance sheets and their interpretation; application of theory and principle to simple system of accounts; practical accounting problems. No prerequisites. This course should be taken by students expecting to enter Courses 20 and 29.

4 units, autumn, *winter, *spring, and *summer quarters
(CLIFFORD, BROWN, SEVERSON) MTWTh 8, 9, 11
autumn, 120 (3 sections); winter, 81 (2 sections); spring, 106 (3 sections); summer, 20

5. Railway Transportation.—Historical account; development of systems; state and federal legislation; decisions of the commissions and of the courts; government ownership and operation. Not open to first-year students.

4 units, autumn and summer quarters (JONES, BARRETT) .. MTWTh 8, 10
autumn, 96; summer, 47

6. Introduction to Statistical Methods.—A study of elementary statistical methods appropriate for dealing with problems in the social sciences and business. Emphasis will be given to the critical examination of data; the defining of statistical units; the theory of classification; the properties and appropriate uses of the commoner averages; and the determination and interpretation of index numbers.

4 units, spring quarter (CANNING) MTWTh 10
spring, 35

7. Financial History of the United States.—A general historical survey of the financial policy of the national government, with especial emphasis on the Revolution, Civil War, and recent periods. The subject-matter of the course includes the tariff, the internal revenue system, public finances in time of war, the public land policy, the growth of public expenditures, management of the public debt, and treasury administration.

4 units [Not given in 1923–24]

21. Public Finance.—A general course dealing with the history and theory of public expenditures; national, state and local budgets; methods of securing efficiency in the disbursements of public moneys; public debts and war finance.

4 units, autumn and winter quarters (LUTZ) MTWTh 9, 10
autumn, 59; winter, 137

22. Labor Problems.—A general course. The topics considered include the following: the rise of the wage-earning class, the industrial revolution, unemployment, woman and child labor, wages, collective bargaining, labor motives, and cultural aspects of labor life.

4 units, winter quarter (BEACH) MTWTh 9
winter, 107; spring, 77

26. Money and Credit.—The elements of monetary theory; the laws of coinage, legal tender, and credit; the standard of value, price movements and their relation to prosperity.

3 units, autumn and summer quarters (WILDMAN, BARRETT) MWF 8
autumn, 123; summer, 26

27. Insurance.—The social and individual problems of economic insecurity; the development of forms of insurance to deal with them; outlines of the principles of the major commercial branches of insurance; problems of state control and participation.

4 units, spring quarter (CANNING) MTWTh 8

29. Intermediate Accounting.—The accounts peculiar to the modern business corporation and the procedure necessary to report the performance (1) of administrative officers to boards of directors; (2) of boards of directors to the body of stockholders. Limited to forty students. Prerequisite: Course 3 or its equivalent.

4 units, autumn and *spring quarters (CLIFFORD) MTWTh 11
autumn, 38; spring, 59

46. Economic History of the United States.—A general historical survey of the economic development of the United States from the Colonial Period to the present. The subject-matter of the course includes such topics as the colonial system, slavery, the westward movement, the development of transportation and labor problems, agriculture, commerce, manufacturers and the tariff, the administration of national finances, and the use and conservation of national resources.

4 units, autumn quarter (LUTZ) MTWTh 10
autumn, 167

47. Taxation.—A study of the principles and forms of taxation, the main emphasis being put upon our own federal, state, and local taxes and tax administration. European experience is considered in so far as the results may be useful in the equitable disposition of American tax problems.

4 units, winter quarter (LUTZ) MTWTh 9
winter, 38

48. Federal Tax Procedure.—A critical examination of the concepts of income and expense expressed and implied in the Revenue Act of 1921. Illustrative problems in the application of these notions in tax reports constitute a major portion of the course. Prerequisite: Course 3 or its equivalent.
3 units (CANNING) [Not given in 1923–24]

[**Business Law.**—See Course 49 in the Law School.]

COURSES PRIMARILY FOR UPPER DIVISION UNDERGRADUATES

100. Principles of Economics.—A review of the principles of economics. Required of economics majors and open only to them and to graduate students of other departments.
4 units, autumn and *spring quarters (JONES) MTWTh 8, 9
autumn, 63; spring, 72

101. Railway Problems.—From the viewpoint of public policy, a study of the problems that arise in connection with government regulation and government ownership. Prerequisite: Course 5.
2 units, winter quarter (JONES) MW 8
winter, 22

102. Banking.—The organization of American credit institutions under the Federal Reserve Act, with a comparison between American and European practice.
3 units, spring and summer quarters (WILDMAN) MWF 8
spring, 70; summer, 17

103. Care of Dependents.—A study of the problems of the care of dependents and defectives in institutions and in their homes, with special reference to conditions in California. Three trips of inspection are required.
4 units, summer quarter (LOTHROP) MTWTh 9
summer, 23

104. Problems of Poverty.—A study of the factors causing poverty, crime, disease, and mental defectiveness, as evidences of social maladjustment; a survey of the possible means of prevention and of the social agencies attempting such work, with special reference to California. Trips of inspection are included.
4 units, spring quarter (LOTHROP) MTWTh 11
spring, 28

105. Crime as a Social Problem.—A study of the problems of crime: the criminal and his characteristics; the treatment of the criminal; the causes and prevention of crime; with special reference to conditions in California. Three trips of inspection of institutions are required.
5 units, winter quarter (LOTHROP) MTWThF 11
winter, 40

106. Foreign Exchange.—A study of the system of settling international indebtedness; principles and practice of exchange banking; money markets of the world and their relations. Domestic exchange will also be considered.
4 units, autumn and *winter quarters
(WHITAKER) (autumn) MTWTh 10; (winter) MTWTh 11
autumn, 42; winter, 42

107. Railway Administration.—From the viewpoint of the railroad executive. A study of railway organization, operation, traffic, finance, accounts, and rates. Prerequisite: Course 5. Best preceded by Courses 3 and 20.
2 units, winter quarter (JONES) TTh 8
winter, 21

108. Investments.—From the investor's point of view, a study of the issues of national, state, and municipal governments; of railway, industrial and irrigation companies; and the organization and methods of bond and brokerage houses.
3 units, spring quarter (WILDMAN) MWF 11
spring, 102

109. Advanced Accounting.—The valuation of fixed assets of private enterprises, and the distribution among accounting periods of costs and losses incurred in connection with investment in fixed assets. Special emphasis is given to valuation for purposes of purchase and sale of a business and for purposes of corporate combination or reorganization. Prerequisite: intermediate accounting or its equivalent.
4 units, winter quarter (CANNING) MTWTh 11
winter, 18

110. Interpretation of Accounting Reports.—A discussion of the balance sheet, the loss and gain statement, the statement of application of funds, and progress reports, with reference to the interests of the stockholder, the short-term creditor (chiefly the banker) and the bondholder. Prerequisite: intermediate accounting or the equivalent.
4 units, autumn quarter (CANNING) MTWTh 8
autumn, 7; summer, 20

111. Seminar in Accountancy.—Special problems in the theory and practice of accounts. Prerequisite: consent of the instructor.
autumn and *winter quarters (CANNING) [By arrangement]
autumn, 7; winter, 12

112. Introduction to Auditing.—Training for two classes of students is contemplated: (1) those who intend to become professional accountants; and (2) those whose future work as bankers, credit managers, investors, etc., will involve frequent interpretation of the accounts and accounting documents of others. Discussion of purposes of audits, kinds of audits, processes of auditing, auditor's reports, and the legal and ethical duties of auditors to clients and to the public. Practice work in auditing will be sought. Prerequisites: Course 29 with consent of the instructor.
4 units, winter quarter (CANNING) MTWTh 9
winter, 27

113. Introduction to Cost Accounting.—The nature and classification of cost; methods of cost measurement and allocation to output; relation of manufacturing cost accounting to scientific management. Prerequisite: intermediate accounting or the equivalent.
4 units, autumn quarter (CANNING) MTWTh 11
autumn, 14

114. Introduction to Social Investigation.—A survey of the resources of the library and of the methods of investigation and presentation of data in documentary research, social case work, and social surveys.
3 units, winter quarter (LOTHROP) MWF 9
winter, 13

115. Psychological Aspects of Sociology.—Social organization from the viewpoint of mental inter-relationships of society and the individual. Problems of association, leadership, conflict, coöperation, the formation of public opinion, and social progress are considered. An elementary knowledge of sociology and psychology is assumed.
3 units, autumn quarter (BEACH) TWTh 9
autumn, 23

116. Immigration.—A general introduction to the study of immigration, with special reference to the composition of the American population and to the economic and social problems involved in the mingling of peoples, of economic standards, and of cultures in the United States.
3 units, spring quarter (BEACH) MTWTh 9
spring, 126

117. Problems of Child Welfare.—A brief survey of problems of child protection and care from the social viewpoint, with special reference to conditions in California.

(*a*) Problems of recreation, health, vocational training, guidance, etc. Not open to those taking Economics 104 for the full quarter, but to those taking the first half only.
1 unit, summer quarter (first half) (LOTHROP)
summer, 11

(*b*) The care of dependent, defective, and delinquent children. Not open to those who have taken Economics 103 and 155. Two trips of inspection are required.
1 unit, summer quarter (second half) (LOTHROP) TTh 11

119. Accountancy of Investment.—Methods of valuing income-bearing properties and securities on the basis of a rate of interest, and of finding the rate of interest yielded on investments; depreciation and sinking funds. The student's work consists largely in the solution of assigned problems. Advanced mathematics not required.
4 units, autumn and *summer quarters (WHITAKER) MTWTh 10, 11
autumn, 36

120. Corporation and Trust Finance.—Elementary survey of corporation law; organization and management of corporations and combinations; corporation securities, stocks and bonds, with their classification; the stock market and stock speculation; capitalization, surplus, reserve, and financial policy; provision of new capital; promotion, underwriting, receiverships and reorganization.
4 units, winter and *summer quarters (WHITAKER) MTWTh 10, 11
winter, 31; summer, 33

121. Food Resources of the World.—The factors determining the production and distribution of food products.
2 units, spring quarter (TAYLOR) TTh 11
spring, 146

122. Seminar on Pacific Coast Export Industries.
autumn quarter (MEARS) [By arrangement]
autumn, 13

123. Seminar on Coöperative Marketing.
winter quarter (MEARS) [By arrangement]
winter, 13

124. Principles of Economics (continued).—A continuation of Economics 100 and based on the second volume of Taussig's *Principles of Economics*. The subject-matter includes the distribution and consumption of wealth; problems of economic and social organization, such as labor, railways, business combination and socialism; with some aspects of taxation. Open to senior majors and graduate students. Prerequisite: Course 100 or equivalent.
4 units, spring quarter (LUTZ) MTWTh 10
spring, 9

125. Social Legislation in California.
2 units, spring quarter (LOTHROP) TTh 10
spring, 19

126. Seminar in Accounting.
(CLIFFORD) [By arrangement]
spring, 11

COURSES PRIMARILY FOR GRADUATE STUDENTS

201. Graduate Seminar.—Open only to candidates for higher degrees.
autumn, winter, spring, and summer quarters
(WILDMAN, CLOKIE) [By arrangement]
autumn, 12; winter, 8; spring, 10; summer, 3

202. Seminar in Transportation.—Designed for advanced students.
spring quarter (JONES) [By arrangement]
spring, 4

203. Seminar in Sociology.—Designed for advanced students.
winter and spring quarters (BEACH) [By arrangement]
winter, 10; spring, 3

204. Seminar in Public Finance and Taxation.—A research course open to advanced students desiring to pursue semi-independent investigation in the field of public finance and taxation.
spring quarter (LUTZ) [By arrangement]
spring, 5

205. Seminar in Economic Research.
winter quarter (DAVIS) [Not given in 1923–24]

208. Seminar in Social Problems.—Practical experience in some investigation.
winter, spring, and summer quarters (LOTHROP) [By arrangement]
winter, 3; spring, 10; summer, 4

SECRETARIAL TRAINING

A1. Secretarial Training.—This course offers training in stenography and typewriting, supplemented by instruction in the form, arrangement, and the general mechanical make-up of the business letter. Open to a limited number of students from all departments in the order of their

application. Credit for any of the courses in secretarial training is not accepted in fulfilment of the departmental requirements for graduation, but may count as part of the University requirement for the degree. Four hours' instruction a week in stenography and three in typewriting.

4 units, autumn, *winter, *spring, and *summer quarters (SANDERS)
autumn, 19, 36; winter, 9, 25; spring, 8, 12; summer, 6, 8

AII. Secretarial Training.—Development of speed with accuracy on the typewriter, coupled with ability to take stenographic dictation at the rate of 80 words a minute. Discussion of special problems in commercial correspondence and office management. Open to those who have completed AI or its equivalent.

4 units, *winter, *spring, and *summer quarters (SANDERS) [By arrangement]
autumn, 5; winter, 19, 29; spring, 8, 12; summer, 6, 8

AIII. Secretarial Training.—Special emphasis is laid on further development of typewriter speed and on transcript work. In stenography the student should be able to take dictation at the rate of 110 words a minute. A study is made of the duties and responsibilities of a secretary and of the ethics of business. Open to those who have completed Course AII or its equivalent.

4 units, autumn and *spring quarters (SANDERS) [By arrangement]
autumn, 14, 18; spring, 14, 19

AIV. Teachers' Course.—Designed for students preparing to teach the commercial subjects. Discussion of the methods of teaching shorthand, typewriting, bookkeeping, and kindred commercial branches. Lectures, discussions, and demonstrations. Credit for this course is not accepted in fulfilment of the departmental requirements for graduation, but may count as part of the University requirement for the degree. Prerequisites: Economics AI, AII, AIII, and 3, or their equivalent.

3 units, autumn and *winter quarters (SANDERS) [By arrangement]
autumn, 5; winter, 11

EDUCATION

SCHOOL OF EDUCATION

The purpose of this school is to enable the University to meet the legitimate demands of the state in the matter of the preparation, training, and certification of teachers and school officers. The courses for preparation in both majors and minors are designed, therefore, to lead to this certification and are outlined by both divisions of the school faculty—the faculty of the Department of Education proper and that of the Division of Graphic Art—together with representatives from other departments concerned with the preparation of teachers for the junior high and secondary schools.

A special announcement of the school, giving details as to its organization, requirements, and programs of study, will be mailed on request.

DEPARTMENT OF EDUCATION

Ellwood Patterson Cubberley, Truman Lee Kelley, Jesse Brundage Sears, Professors.

[Lewis Madison Terman, Professor of Psychology.]

Edward Rynearson (Fifth Avenue High School, Pittsburgh,), Acting Professor (Summer Quarter).

John Conrad Almack, Percy Erwin Davidson, †William Martin Proctor, Associate Professors.

Harl R. Douglass, Acting Associate Professor.

[Calvin P. Stone, Assistant Professor of Psychology.]

Walter Lewis Bachrodt, Thomas William MacQuarrie, Walter H. Nichols (Principal Palo Alto High School), Acting Instructors (Summer Quarter).

Ralph Waldo Swetman, Teaching Fellow in School Administration.

Howard R. Taylor, Assistant in Practice Teaching.

Vaal Stark, Assistant in Girl Scout Work.

Dorothy Putnam, Secretary of the Department and of the School of Education.

Gwyneth A. Lewis, Department Librarian.

The department offers six main lines of work:

1. Courses of a general nature on the history, function, financing, and administration of public education, intended in part as information courses for the general university student and without reference to the work of teaching.

2. Courses intended to assist other departments in preparing their students for certification to teach in schools in California. All such students should confer with members of the Department of Education as to courses but, in general, Courses 131, 132, and 133 are recommended if the candidate has not had experience in teaching. Courses 150, 155, and 160 are required for the elementary certificate, with Course 196 added for the junior high school certificate, and Course 158 for the certificate of work in Americanization classes. Six units in courses relating to secondary school work (Courses 195 and 196) are required of all candidates for the high school teacher's recommendation, under the regulations of the California State Board of Education, as are Courses 199 and 201, if the candidate has not had previous experience in teaching. Courses 155 and 160 are also required for all forms of California certificates. (For a more detailed statement, see the *Announcement of the School of Education.*)

3. Five major courses, which may be followed by candidates for the high school teacher's recommendation, each counting as one of the required majors, and offering preparation along the following lines:

(*a*) History and Theory of Education. Intended for those desiring a general acquaintance with educational history and theory.

(*b*) High School Teacher. Intended for those taking an A.M. degree under the faculty of the School of Education.

(*c*) High School Administration. Intended for those preparing for work as a high school principal.

† Absent on leave, 1923–24.

(*d*) Administration of Education. Intended for those preparing for executive work in education as principal or superintendent of schools.

(*e*) Educational Research. Intended for those preparing to become directors of research in public school systems.

Each of the above majors requires the completion of 45 units of work in the Department of Education; and of some one of the five curricula when qualifying for the A.M. degree in Education. (For an outline of each curriculum, see the *Announcement of the School of Education.*)

4. Courses primarily for major students or for those making Education a minor, and intended as special preparation for (*a*) those who desire to become teachers of Education in normal schools or colleges; (*b*) to direct research work in training schools and public school systems; (*c*) to fill supervisory or administrative positions in the public schools, elementary or secondary; and (*d*) to undertake special educational work in the elementary or secondary field. (See 3 above.)

5. Courses and research work, given in connection with the Department of Psychology, in the psychology and pedagogy of exceptional children. Two lines of work in this field are offered: (*a*) elementary courses designed to give prospective superintendents and principals a general acquaintance with the problems of special education; and (*b*) research courses for the advanced student who looks forward to working as clinical psychologist in the public schools or institutions for defectives or delinquents. A "research fellowship in the psychology and pedagogy of backward children" is provided by the Dr. C. Annette Buckel Foundation, supplemented by additional support from the Board of Trustees of the University; there is also a "research fellowship in the study of exceptional children" (see Department of Psychology).

6. Courses for the preparation of teachers of drawing for the public schools and for the general training of college students in artistic perception and graphic expression. (See Division of Graphic Art.) Students may enroll as prospective majors in this division, beginning with the freshman year.

The courses in Education are open as electives to all students, but only those who desire to prepare for one of the lines of work mentioned above under (3), (4), or (5) and whose preparation and experience are satisfactory to the department, will be accepted as major students. Only graduates of teachers' colleges, normal schools or other teachers' training schools, or those having had teaching experience and having junior standing, will be accepted (save under special circumstances) as major students in Education during the undergraduate years. Graduate work in Education is open to all properly qualified students, without these restrictions.

Major Requirements

Undergraduate Work.—Major students begin their work in Education with the junior year. Psychology 51 and 120 should be taken early in the course. Collateral work will be advised to meet individual needs. Ordinarily a course in biological science and one in the elements of Economics is required of all, though these are usually covered by Lower Division requirements.

For graduation the student must complete, in addition to the collateral work in other departments listed above, not less than thirty-five units of

selected work in the Department of Education, besides satisfying the requirements of two teaching minors in the School of Education and outside the department. In certain instances one teaching major may be accepted in place of two teaching minors; and in the case of students coming with advanced or graduate standing from other universities, substantially equivalent preparation or experience in lieu of the courses and the major and minor work required here, with permission to do more advanced work instead.

First Graduate Year.—The requirements for the baccalaureate degree cover only introductions to the different fields of Education, and those purposing to offer themselves for responsible positions in educational work are expected to proceed at once to the master's degree. This demands a minimum of forty-five units of work, at least thirty of which represent work in Education in advance of the baccalaureate requirements, together with the presentation of a satisfactory thesis and the satisfaction of the requirements for one of the teaching majors offered in Education. Ordinarily one-half of the thirty units must be work listed above Course 202, work listed below Course 175 not being included. The completion of the first year of graduate study should mean a somewhat general acquaintance with the different fields of Education, together with the beginnings of specialization in some one or two of them. Those who desire to prepare properly for the type of positions indicated under 4 or 5 should proceed to the doctorate.

Second Graduate Year.—By the end of the second year of graduate study the student is expected to have attained a mastery of the literature and practice in three of the following divisions of the subject: (1) History of Education, European and American; (2) Theory and Practice of Elementary Education; (3) Theory and Practice of Secondary Education; (4) Organization and Administration of Education; (5) Educational Psychology and Theory. Elementary Statistical Theory is included in 4 and 5. Students intending to proceed to the doctorate either at once or later, may select one of these divisions as a major and one as a minor.

By the end of this second year students should also have completed in large part the required work in a second minor, outside of the department; should be able to satisfy the modern language requirements (German and French); should be well started on the dissertation; and should be ready for the department and University preliminary examinations.

Any student may do two or more years of graduate work in Education, following the same courses as degree candidates, but without becoming a candidate for the Ph.D. degree.

Candidacy for the Ph.D. Degree.—The minimum residence requirement for the degree is three years beyond the A.B. degree, with the last year at least spent at Stanford. Neither the time element nor the number of courses completed is considered acceptable unless the candidate also demonstrates the ability to do intensive work and to carry through an original research in a highly creditable manner. Evidence of broad general training also will be expected, as well as technical preparation in major and minor subjects.

All who desire to proceed to the doctorate in Education are ex-

pected to pass an oral or a written departmental test, or both, in three of the five divisions of the field, as given above, such tests being known as the preliminary departmental examinations for candidacy for the Ph.D. degree, and given, for the present, in May of each year. After passing these departmental preliminaries acceptance as a candidate for the Ph.D. degree requires an affirmative vote of the departmental faculty. Written application for the examinations, with designated fields, is expected to be in the hands of the executive head of the department not later than April 15 of each year.

The departmental tests extend beyond the range of the courses offered, involving a knowledge of the literature and practice in each field. Only those passing these tests are considered as accepted candidates for the Ph.D. degree, and thereafter recommended to the Dean of Graduate Study for the further preliminary examinations for candidacy, the examinations being given by a special examining committee of the faculty, as required by the University regulations with respect to graduate study.

Requirements for a Ph.D. Minor.—Unless otherwise arranged, Ph.D. degree candidates belonging to other departments and electing a minor in Education, will be expected, besides offering evidence of practical experience in teaching, or in school administration, to complete 45 units of work in Education in courses numbered above 174 (half of the work to be in courses listed above 202), and ordinarily in not more than two of the divisions of the field of Education, as before listed.

Third Graduate Year.—The final year will be devoted largely to personal investigation along the lines of the thesis subject, under the direction of the member or members of the department in charge.

Library and Practical Facilities

The general university library contains the important recent books, files of the more important educational magazines, both American and foreign, and a collection of early American educational magazines and reports. The special library of the department, consisting of about 8,000 volumes, contains one of the most complete collections of American state and city school reports to be found in the United States, the library ranking probably third in this respect. Rich in old college and normal school catalogues and textbooks, which are of much historical value, the collection of old and present-day school textbooks is also large and valuable.

In practical facilities the department has good working connections with the State Teachers' College at San Jose and with the public schools of the immediate vicinity. For more important studies by advanced students the large city school systems in the vicinity of the University can usually be made available.

Laboratory facilities for research are also fully available to all who need them, by means of the good working connections with the Department of Psychology.

I. Courses of Instruction in Education

110. Girl Scout Training Course.—A practical course of training in the principles and practices of girl scout leadership.

2 units winter quarter (Stark) TTh 2:10–3:40
autumn, 14; winter, 16

111. Girl Scout Leadership.—A continuation of the preceding course, with troop work, readings, and discussion of work.
2 units, spring quarter (STARK) W 2
spring, 13

131. Public Education in America.—A study of some of the more important present-day problems in the organization and administration of public education in the United States, in the light of their historical development. An introductory course. Lectures, following a text, with assigned readings.
3 units, winter quarter (CUBBERLEY) MWF 11
winter, 31

132. Introduction to the Study of Education.—A study of typical phases of the organization and administration of public education, with a view to presenting information relative to the work of our public schools in a body such as the citizen and the teacher ought to have; at the same time making the course an introduction to the various fields of education. Lectures, following a text, with assigned readings and reports.
3 units, autumn quarter (SEARS) MWF 11
autumn, 51

133. Educational Theory.—An introduction to a philosophy of education, construed as an integrated view of the conditions and purposes of educational effort; biological infancy, human endowment and culture; education in relation to the problems of social progress and conservation. Lectures, following a syllabus, with assigned readings.
5 units, spring quarter (DAVIDSON) MTWThF 11
spring, 25

134. Hygiene of the School Child.—A study of the physical basis of education, including such topics as growth, physical defects, health supervision, etc. Lectures following a text, with assigned readings and reports.
3 units, summer quarter [Not given in 1923–24]
summer, 1

140. Intellectual Education.—Superstition, credulity, and irrational belief; propaganda; educational practice and policies for the cultivation of reflective thinking; intellectual motivation; interests—their nature, origin, and growth; the relation of interests and abilities, etc. Dewey's *How We Think* will be the basal text for the course.
5 units, winter quarter (DAVIDSON) MTWThF 10
winter, 44

142. Education and Character.—The psychology of character in its educational significance. Growth and character; types and individual differences; principles of training; educative agencies.
5 units, winter quarter (DAVIDSON) MTWThF 9
winter, 14

150. Principles of Elementary Education.—Intended for those without much acquaintance with elementary school work, and primarily designed to meet the State Board of Education requirement for the elementary certificate.
3 units, winter quarter (ALMACK) MWF 9
winter, 30

155. The California School System and Law.—A course on the development and chief features of the California school system as outlined in the school law for the state. A required course for a teaching certificate of any grade in California.

3 units, autumn quarter (Swetman) TWTh 4
3 units, *summer quarter (first half) (Nichols) MTWThF 3
autumn, 66; summer, 100

158. Americanization Work through Education.—A teacher's course, intended to prepare for this special type of work in the public schools, and required for the California Americanization Certificate.

3 units (Almack) [Not given in 1923–24]

160. Citizenship and Education.—A teacher's course, as outlined by the State Board of Education, and required of all candidates for a teaching certificate of any grade in California.

3 units, winter and *summer quarters
(Almack) (winter) MWF 8; (summer, first half) MTWThF 8
winter, 138; summer, 93

165. Educational Psychology, Introductory.—A general introductory course, intended primarily for teachers and undergraduate students. Lectures, demonstrations, recitations, reports. Prerequisite: Psychology 51 or the equivalent.

4 units, autumn and *summer quarters
(Stone) (autumn) MTWTh 1:05–2:05; (summer) MTThF 11

170. Mental Deficiency.—The physical and mental traits of the feeble-minded; heredity; medical types; psychological diagnosis; the conduct of special classes, etc. The course will involve visitation of institutions for defectives, observation of special classes, and demonstration tests. A part of the work will necessarily be done away from the University.

3 units, summer quarter (Merrill) MWF 9

175. Education and Modern Social Problems.—A discussion of principles in connection with the following topics: the distribution of educational opportunity; federal aid; education and industry; education and the problems of citizenship and nationality; Americanization of aliens; family, church, and school; liberal education; professional ethics; teachers' unions and organizations; the democratic principle in school administration.

5 units, summer quarter (Davidson) MTWThF 9
summer, 31

177. Rural Education.—The social and economic factors involved in the development of rural institutional life; the present status of the larger administrative and supervisory problems of rural education as explained by these factors; and the principles and practical methods essential to the solution of these problems.

3 units, summer quarter (Almack) [Not given in 1923–24]

180. History of Education in America.—The evolution of American educational ideals and practices, with special reference to the origin and development of those features of our present-day practices which are most characteristically American. Lectures, following a text, assigned readings and the investigation of an assigned topic.

3 units, summer quarter (Cubberley) [Not given in 1923–24]

185a. History of Education.—The development of educational practices and traditions through the Greek, Roman, medieval, and early modern periods in Europe, with the chief emphasis on the foundations that underlie, and the forces that have produced, our western civilization and educational systems. Study of a text and sources, with discussions.
3 units, summer quarter (first half) (CUBBERLEY) MTWTh 4
summer, 88

185b. History of Education.—A continuation of course 185*a*, dealing with the period from about 1750 to the present, tracing the evolution of modern state school systems, and studying the nineteenth century forces which have so profoundly modified life and education.
3 units, summer quarter (second half) (CUBBERLEY) MTWTh 4

188. Graphic Methods of Presenting Facts.—Designed to give practice in the methods which are serviceable in the popular portrayal of statistical data. In addition to graphic presentation some attention is devoted to a consideration of the merits of various tabular arrangements of material and to desirable methods of school publicity. There are no prerequisites to the course, but a knowledge of lettering is desirable. Intended primarily to show prospective school officers how best to display statistical facts.
2 units, winter and *summer quarters
(ALMACK) (winter) TTh 9; (summer) TTh 10
winter, 27; summer, 15

190. Elementary Statistical Methods.—A study will be made of the various kinds of statistical series and the properties of each. The purpose of the first part of the course will be to discover what constitutes the significant features of a body of data. Opportunity to obtain practice in the computation of the important constants of distributions will be given; also in the use of calculating machines and other aids to computation. The approach will be inductive, starting with measures and having as its object the discovery of the statistical resources which are available for making data reveal their story. Psychology 60 may be accepted instead of this course.
4 units, autumn and *summer quarters
(KELLEY) (autumn) MTThF 8; (McQUARRIE) (summer) MTThF 8
autumn, 30; summer, 30

192. Educational Tests and Measurements.—A course dealing with the use and interpretation of educational tests and scales in the administration and supervision of instruction, simple statistical and graphical methods, the significance of scores and the diagnostic value of the results obtained.
4 units, autumn and *summer quarters (KELLEY) MTThF 10
autumn, 22; summer, 29

195. Principles of Secondary Education.—A course dealing with the aims, purposes, and underlying principles of secondary education; intended for those preparing to teach in secondary schools; and required of all candidates for the California high school recommendation. Open to seniors and graduate students only.
3 units, autumn and *spring quarters (ALMACK) MWF 8
3 units, *summer quarter (first half) (DOUGLASS) MTWThF 10
autumn, 33; spring, 71; summer, 76

196. The Junior High School.—A course dealing with the development, organization, and administration of the junior high school. Methods of teaching, curricula, types of buildings, etc., considered. Particularly designed for those who are candidates for intermediate certificates, or who expect to become supervising principals.

3 units, autumn and *spring quarters (Almack) TTh 8
3 units, *summer quarter (first half) (Douglass) MTWThF 9
autumn, 51; spring, 69; summer, 74

197. Modern Methods in High School Teaching.—For principals, supervisors, experienced or prospective teachers, who have had an elementary course in teaching methods and management. Reading, reports, discussion, and lectures on modern teaching methods, with a consideration of supervised or directed study, socialized methods, and problem-project teaching.

2½ units, summer quarter (second half) (Douglass) MTWThF 9
summer, 49

198. Vocational Guidance.—The principles, methods, and literature of vocational guidance. Consideration given to methods of vocational guidance in high schools, and under plans now in operation the following to be studied as practical problems: educational guidance, extra-curricular activities, occupations, job analysis, need for vocational education, factors in choice of an occupation, life-career motive, plans for placement, follow up, employment supervision. The course is designed to meet the needs of vocational counsellors, directors of part-time education, and high school principals.

4 units, summer quarter (Rynearson) MWThF 8

199. Methods and Management of Instruction—A practical course in the methods and management of secondary instruction. The psychology of high school subjects considered, and opportunity given for directed observation of expert secondary instruction. Intended as a preparation for practice teaching, and should be taken before Course 201.

2 units, autumn and *spring quarters (Douglass) TTh 9

201. Practice Teaching.—Practice in the handling of classes and the giving of instruction, with accompanying conferences, six units of credit in such work being required of all inexperienced teachers, by the rules of the State Board of Education, before the conferring of a California high school teacher's recommendation. This may be arranged for at the University, at the State Teachers' College, San Jose, or at any state teachers college in California. Those who desire to do practice teaching should secure from the Secretary of the School of Education, or from the Director of Teacher Training, a blank form of application for a practice-teaching position, and fill out and file the same with the Director of Teacher Training during the quarter preceding the one chosen for fulfilling their practice-teaching requirement. Prospective cadet teachers should confer in advance with Professors Proctor or Douglass. Conference with all practice teachers required each week.

3 units, autumn, *winter, and *spring quarters
(Douglass, Taylor) Conference M 4:05–5
autumn, 43; winter, 80; spring, 45

202. Criticism and Supervision of Instruction.—A few advanced students, who have had sufficient teaching experience, are allowed to under-

take, in the schools of the vicinity, the personal investigation of problems in instruction or supervision. Collateral reading and detailed written reports will be required. Enrollment only after conference with the instructor concerned.

1 unit, autumn, winter, and *spring quarters (PROCTOR) [Not given in 1923–24]

205. Administrative Problems in Secondary Education.—A study of a number of practical problems relating to the administration of a secondary school, such as organization, curricula, teaching staff, community relationships, part-time education, citizenship, and discipline, honor societies, activity period, social functions, etc., a specific problem being assigned for individual investigation by each student electing the course. Presupposes Course 195 or teaching experience in a secondary school. Intended for those preparing for administrative work in the secondary field.

4 units (RYNEARSON) MTWTh 10
summer, 27

209. Reading Seminar in Problems of High School Administration.
1 unit, winter quarter (PROCTOR) [Not given in 1923–24]

210. Reading Seminar in Vocational Education.
1 unit, spring quarter (PROCTOR) [Not given in 1923–24]

212. Education and Character (Advanced).—A continuation of Courses 140 and 142. Open to students who have had either of these courses or its equivalent.

3 to 5 units, spring quarter (DAVIDSON) [Hours by arrangement]
spring, 8

215a. Educational Psychology (Advanced).—Original endowment, mental development, individual differences in relation to heredity, sex, and environment. Lectures and class reports. Prerequisites: Psychology 51 and 165 and either Psychology 60 or Education 190.

4 units, winter quarter (TERMAN) MWF 11

215b. Educational Psychology (Advanced).—A critical survey of the literature of learning, formal discipline, and work and fatigue, with special reference to the school program. Lectures and class reports. Prerequisites: Psychology 51, 55, and 165 and either Psychology 60 or Education 190.

4 units, spring quarter (TERMAN) MWF 11

220. Advanced Statistical Methods.—A continuation of Course 190 and dealing primarily with series of related measures. The statistical methods of analysis of correlated data and the means of combining several measures into total scores are treated, with particular application to educational and mental test data and problems. Prerequisite: Education 190 or Psychology 60.

4 units, winter and *summer quarters (KELLEY) MTThF 8
winter, 12; summer, 5

221. Advanced Statistical Methods.—A continuation of Education 220 and dealing especially with problems in multiple correlation, with the statistical treatment of known linear, skew, and categorical data. Course alternates with 270. Prerequisite: Education 220.

4 units, spring quarter (KELLEY) MTThF 8
spring, 6

225. Mental Tests.—An introductory course dealing with the psychological principles of mental testing, test procedure, Binet and group tests and practical applications. Prerequisites: Psychology 51 and either Psychology 60 or Education 190. Course 55 in psychology must also accompany or precede.
4 units, winter and *summer quarters (MERRILL) MWF 2–4

226. Mental Tests.—Essentially a laboratory course, with one or two lectures weekly. Important types of mental tests are subjected to experiment and critically evaluated. Course 225 is a necessary prerequisite.
4 units, spring quarter (MERRILL) MWF 2–4

230. City School Administration.—A study of the educational, financial, and administrative principles underlying the proper management of school systems in cities, with a view to the establishment of principles of action, together with a historical study of the origin of American administrative problems. A thesis on some problem in city school organization or administration, or a survey of some city school system required of each student.
4 units, winter quarter (CUBBERLEY) MWF 9
winter, 29

231. Public School Administration.—The general organization of education in the United States, in state, county and city, with a preliminary study of the problems and inter-relationships of each. Followed by a more detailed study of the educational, financial and administrative principles underlying the proper administration of school systems in cities, with a view to the establishment of principles of action. Carried along parallel with this is a historical study of the origin of American administrative problems.
5 units, summer quarter (BACHRODT) MTWThF 11
summer, 21

233. The Principal and His School.—A practical course dealing with the organization and administration of a single school and the organization and supervision of instruction, school extension, community relationships, etc. Thesis on some administrative problem required of each student.
4 units, autumn and *summer quarters (ALMACK) MTThF 9
summer, 24

235. School Surveys and Educational Diagnosis.—A study of the literature relating to school surveys and other forms of educational measurements as a basis for the investigation of practical problems in school administration and supervision. How to organize and conduct a school survey, what to look for, how to collect and interpret data and how to set forth the results of the investigation, are important features of the course.
4 units, spring and *summer quarters
(SEARS) (spring) MWF 9; (summer) MTThF 2
spring, 17; summer, 31

237. Hygiene of the School Plant.—A study of the fundamental problems involved in schoolhouse planning and construction, including standards of construction, unit cost, types of buildings, and building surveys.
3 units, spring quarter (ALMACK) MWF 10
autumn, 10; spring, 24

240. The Elementary School Curriculum.—A study of the principles underlying the organization of subject-matter for courses in the elementary school, including a critical examination of curricula, syllabi, and school texts in the light of their function in the teaching and administration of the curriculum.
4 units, summer quarter (Sears) MTThF 1
summer, 26

242. Organization and Supervision of Elementary Education.—A course dealing with the more important problems of organization, management, and supervision of the elementary school, including such topics as grade, departmental, group, and individual systems of class organization; typical promotion schemes; program making; time allotment; grades and marks; records and reports; attendance and retardation.
4 units, spring quarter (Sears) [Not given in 1923–24]

245. American Teaching Practice.—An appraisement of the procedures employed in the teaching of the elementary school branches, in the light of the available experimental and statistical studies bearing upon them. Arranged primarily for principals and supervisors.
3 units, summer quarter (Davidson) [Not given in 1923–24]
summer, 2

250. State School Administration.—A study of the educational principles underlying the proper administration of school systems in states and counties, and involving a comparative study of the school laws and school systems of the various American states. The course includes a study of such topics as federal and state policy, forms of control, revenue and its apportionment, the state and the teacher, the state and the child, private and sectarian education, and state oversight and control.
4 units, spring quarter (Cubberley) MTThF 3
spring, 21

251. Current Problems in Public Education.—A seminar-type study and discussion of current problems in the organization and administration of public education. Opportunity for individual and group investigations in the following fields: organization of a national program of education; problems in state and country school administration; problems in the organization of elementary and secondary administrative units; problems in the administration of teacher-training institutions.
4 units, summer quarter (———) [Not given in 1923–24]

255. School Finance.—A study of educational finance, including such topics as sources of finance, costs, credit financiering, budget making and accounting.
4 units, autumn quarter (Sears) MWF 9
autumn, 21

260. Practical Administrative Problems.—A study and discussion of a number of practical problems in the organization and administration of a system of public instruction in cities. Limited to advanced students who have had Course 230, or its equivalent, and administrative experience.
3 units, spring and *summer quarters
(Cubberley) (spring) TTh 4; (summer) MTWTh 3
spring, 10; summer, 28

262. Seminar in Administrative Problems.—Open only to properly qualified students who have had satisfactory preliminary courses and experience in school administration.
4 units, spring quarter (SEARS) MWF 11
spring, 4

267. Mental Development.—Seminar course. A critical survey of the most important studies of infancy, childhood, adolescence, and senescence. Intended primarily for major students in psychology and education, in the second or third year of graduate work. A two-quarter course, alternating with Course 268.
2 units, winter and spring quarters (TERMAN) TTh 11

268. Psychology of Endowment.—A seminar and thesis course. Tests of general intelligence, special ability, character and personality; the psychology of genius; mental inheritance; race differences, etc. A two-quarter course. Intended for same class of students as those taking Course 267, and alternating with it.
2 units, winter and spring quarters (TERMAN) [Not given in 1923–24]

270. Psychometry.—Essentially a research course, with attention given to the analysis of mentality; to the measurement of interest, of special sensory capacity, and of certain specific habits and skills. The bearing upon problems of guidance is stressed. Admission with consent of the instructor.
4 units, winter quarter MTThF 10

285. Thesis Work.—In certain courses students may be given an additional unit of credit through presentation of a satisfactory thesis on an assigned topic, with the results of independent work embodied. The consent of the instructor is necessary before registering.
1 unit, any quarter

290–99. Special Courses.—In addition to the courses listed above, special work in independent investigation is provided for students prepared to do such advanced work, the nature of the investigation being determined by the student's preparation and needs. Permission to register for any of the special courses listed below, with the number of units of credit to be given, is subject to individual arrangement. From time to time arrangements are made for meetings of the different groups, usually in the evenings, for reports as to progress, discussion, and criticism.

The members of the instructing staff stand ready to supervise independent investigations in the following fields:

290. Problems in the history of education (CUBBERLEY)
291. Problems in the theory of education (DAVIDSON)
292. Problems in the organization and administration of rural and county-unit education (ALMACK)
293. Problems in the organization and administration of elementary education (ALMACK, SEARS)
294. Problems in the organization and administration of secondary education (DOUGLASS, RYNEARSON)
295. Problems in state, county, and city school organization and administration (CUBBERLEY)

296. Problems in school finance (SEARS)
297. Problems relating to the school plant (ALMACK)
298. Problems relating to educational tests, measurements and statistical procedure (KELLEY)
299. Problems in intelligence testing and educational psychology (TERMAN)

autumn, 36 (8 groups); winter, 60 (12 groups); spring, 68 (11 groups); summer, 20 (3 groups)

II. COURSES FOR TEACHERS OF SPECIAL SUBJECTS

A number of special courses of instruction, with groupings of courses, designed to prepare teachers for special work in the public schools, have been arranged and are described in the *Announcement of the School of Education* (issued in June). These include courses designed to prepare commercial teachers, manual arts teachers, teachers of home economics, and teachers of the various high school subjects.

III. COURSES IN OTHER DEPARTMENTS

The following Teachers' Courses in other departments, ordinarily indicated by the number 200, are designed for students preparing to teach special subjects in secondary schools, and are offered in connection with the preparation in the teaching of majors and minors, as described in the *Announcement of the School of Education.* Such courses are usually necessary for the Teacher's Recommendation, and may be counted, to the extent of four and a half units, as part of the work required in education. (See *Announcement of the School of Education* for further information.)

a. TEACHER'S COURSE IN COMMERCIAL TRAINING.—(See Department of Economics.)

b. TEACHER'S COURSE IN DRAWING.—(See Division of Graphic Art.)

c. TEACHER'S COURSE IN ENGLISH.—(See Department of English.)

d. TEACHER'S COURSE IN FRENCH.—(See Department of Romanic Languages.)

e. TEACHER'S COURSE IN GERMAN.—(See Department of Germanic Languages.)

f. TEACHER'S COURSE IN GREEK.—(See Department of Classical Literature.)

g. TEACHER'S COURSE IN HISTORY.—(See Department of History.)

h. TEACHER'S COURSE IN JOURNALISTIC WRITING.—(See Department of English.)

i. TEACHER'S COURSE IN LATIN.—(See Department of Classical Literature.)

j. TEACHER'S COURSE IN ORAL EXPRESSION.—(See Department of English.)

k. TEACHER'S COURSE IN ORAL READING.—(See Department of English.)

l. TEACHER'S COURSE IN PHYSICS.—(See Department of Physics.)

m. TEACHER'S COURSE IN SPANISH.—(See Department of Romanic Languages.)

DIVISION OF GRAPHIC ART

Arthur Bridgman Clark, Professor.
Chloe Lesley Starks, Assistant Professor.
Edward W. Farmer, Acting Instructor.

The work aims primarily to prepare students for positions as teachers of drawing and art in secondary schools. Many of the courses are also suitable for the practical and general cultural needs of students in other departments.

Prospective teachers of art may register with Graphic Art as their major subject.

Requirements for Graduation

A. As preparation for a fifth-year: 50 units in Graphic Art and as much work in Education and in a teaching minor of some subject other than Graphic Art as will make possible the completion of the requirements for a teacher's certificate in one graduate year.

B. Graduation in fulfilment of requirements for Elementary School Certification: 50 units in Graphic Art, 15 units in each of three subjects chosen from a specific list, and 18 units in Education. (See *School of Education Announcement.*)

C. For the Junior High School Certificate: the same as B, with 23 units in Education.

D. For Special Certification, Fine Arts Type: (*a*) Elementary and Junior High School Grade, 60 units in Graphic Art and 18 units in Education; (*b*) Secondary and Junior College Grade, 90 units in Graphic Art and 23 units in Education.

(For the special lists of subjects required consult the secretary of the School of Education, or obtain Bulletin No. 10, Arts, from the California State Board of Education.)

E. Master's Degree, including Secondary Teacher's Certificate: one graduate year of 26 units and thesis, in Graphic Art; enough units in Education to make the required 27 units; completion of a teaching major or minor other than in Graphic Art.

1. Still Life and Quad Sketching.—Fundamental principles in blocking, proportion, light and shade. Subjects, still life, and outdoor drawings of parts of the arcades of the University, the sketches to be 20″ x 25″ and done with charcoal and colored crayon. The aim of the course is to give readiness and reasonable accuracy in representation.

3 to 5 units, autumn quarter (Starks) MTWThF 1:05–4:05
autumn, 20

2. Landscape.—Outdoor sketching in pencil, charcoal, and colored crayons. The chief work of the class is bent toward large 20″ x 25″ drawings in color, one being made each day, thus developing power to think intently on the essential elements in design, as to form and color value, and on the selection of the outstanding features in the composition of pictures. Each student carries, as a necessary accompaniment to the large drawings, a sketchbook for small notes on compositions, from which, after discussion, the larger subjects are chosen. Open to all students.

5 units, summer quarter (Starks) MTWThF 9–12
summer, 8

3. Design in Form and Color.—This course takes account of the great advance made in recent years in design, both in the development of rich color in surface decoration as applied to textiles and in interior decoration, and endeavors to develop power in creative expression and color arrangement in prismatic as well as grayed colors.

The work is done with the brush directly, and in tempera color, thus training in the most practical way habits of color analysis and clear thinking. A series of problems is given, beginning with the color wheel and the simplest geometric form and leading on through easy steps to elaborate textile designs, rich wall decorations, and the general color design of interiors. The course is prerequisite to Textiles and to Advanced Design.

5 units, autumn, winter, and *summer quarters Lec. MTWThF 8
(STARKS) [Lab. hours at student's convenience]
autumn, 7; winter, 16; summer, 12

4. Perspective.—A series of problems in form presentation (in part free-hand, in part drawn with instruments) involving the various principles of perspective, shades and shadows, with drawings from actual buildings included in the latter part of the course. Open to all students and recommended as preparation to Course 5.

5 units, winter quarter (CLARK) MTWThF 10
winter, 7

5. Art of House Design.—A systematic study of the fundamental principles which underlie taste, convenience, and economy in house designing and furnishing, with brief consideration of the principles of civic planning and its necessity. The subject-matter treated is of such universal interest and importance that the exercises assigned are kept well within the accomplishment of earnest students even though they may have had little training in drawing. The first half of the course deals with types of exteriors and their design and plans; the second half, with interior treatment, furniture, yard and civic planning, in connection with which a few trips of observation are made in the suburban towns toward San Francisco. Previous experience in freehand and perspective drawing will facilitate advancement in the course, which also requires a great deal of drawing, both mechanical and freehand, as the most efficient means to the understanding of design in proportion, line, and surface, and to the cultivation of sensitiveness to beauty of all kinds. Open to all students, but Courses 1 and 4 are recommended for preparation.

5 units, spring and *summer quarters (CLARK) MTWThF 9
spring, 35; summer, 14

6. Lectures on Painters.—The course is conducted with the use of lantern slides, each student being furnished with a collection of prints selected from the University Print Series and blue-prints prepared for this course. The first half covers the Renaissance from Giotto to Velasquez; the second half, the Nineteenth Century and Present Period.

5 units, winter and summer quarters
(CLARK) (winter) MTWThF 9; (summer) MTWThF 8
winter, 49; summer, 23

100. Handicrafts: Pottery.—The entire process of pottery-making from raw materials, including designing, modeling, casting, and glazing, with the firing of bowls, tiles, vases, etc., is carried on by the students

in one classroom equipped with kiln and pebble mills. Open to students who have had three units of technical drawing or design.

5 units, winter and summer quarters (CLARK) MTWThF 1:05–4:05
winter, 6

101. Handicrafts: Metal Work.—Making bowls, sconces, lampshades, etc., in copper, and simple articles of jewelry in silver. Processes of raising and chasing metal and of setting semi-precious stones.

5 units, spring and summer quarters
(CLARK) MTWThF 1:05–4:05
spring, 10; summer, 8

102. Handicrafts: Textiles.—Decoration of textiles in articles for personal use and interior decoration with dye, embroidery, batik, and block printing. Open to all students who have had Course 3 or its equivalent.

5 units, winter quarter (STARKS) MTWThF 1:05–4:05
winter, 7

103. Advanced Color Design.—The application of line, form, and color, as well as of textures and materials, to the design of room interiors. Prerequisite: Course 3.

5 units, winter and summer quarters (STARKS) MTWThF 8
winter, 2

104. Science Drawing.—Designed to assist students in scientific illustration, it includes the drawing of simple scientific subjects in pen, outline, line and stipple shading, wash, line and wash, especial attention being paid to the needs of individual students. Open to science students on advice.

3 units, autumn quarter 8–12
(STARKS) [By arrangement]
autumn, 3

105. Commercial Art.—Autumn quarter, study of figure proportions and representations as used in commercial work; spring quarter, lettering and poster making. Open only to Upper Division students.

5 units, autumn and *spring quarters (FARMER) MTWThF 1:05–4:05
autumn, 17; spring, 11

200. Teachers' Course.—For prospective teachers of art. Discussions of the aims and methods in drawing and art instruction in the public schools, technical work in review and in preparing courses of study. Open only to Upper Division students.

3 units, winter and summer quarters (CLARK) [Not given in 1924–25]
spring, 9; summer, 3

201. Special Courses.—Advanced work in connection with Courses 1 to 200 will be arranged for graduate students in accordance with their technical needs. The quality of work done, rather than the specific course, determines when the work is of graduate or of undergraduate character.

For students working for the master's degree weekly conferences are held for direction of work and reports.

(CLARK) [By arrangement]

ENGINEERING

A. Entrance Subjects

Entering students whose major work is to be in any engineering department should be thoroughly prepared in elementary mathematics, with entrance credit in algebra (at least one and one-half units; preferably two units), plane geometry, and plane trigonometry, in order to be able to take the first year's work in applied mathematics for engineers. Furthermore, it is advisable for them to have entrance credit in mechanical drawing.

In addition to the foregoing preparation in mathematics, students who expect to complete the requirements for graduation from the Civil Engineering Department in four years, should enter with credit for two high school units in one foreign language; one unit in chemistry; one unit in biological science or physics; and one unit in history.

B. General Courses

I. Applied Mathematics

(See courses announced by Department of Applied Mathematics.)

II. General Technical Courses

1. Linear Drawing.—The purpose of this course is to enable the student to construct accurate pencil drawings and to make clean-cut ink lines. The cost of instruments and equipment is forty dollars, and students are cautioned against purchasing cheap, poorly made drawing instruments, which are not suitable for engineering drawing. A list of approved brands may be found in the textbook *Linear Drawing and Lettering* by J. C. L. Fish, and any necessary instruments not listed therein should not be purchased before consulting the instructor.

The course is required of all Engineering or Geology students who have not received equivalent training in high school or elsewhere, and it does not include university credit for those who have entrance credit in mechanical drawing.

1 unit, autumn, *winter and *spring quarters (Thomas) W or F 1:05–4:05
autumn, 77; winter, 19; spring, 15

2. Lettering.—A training in engineering lettering and title making. Open to all students, and required of those whose major is in civil, mechanical, electrical, or chemical engineering, or in geology and mining, whether or not they have entrance credit in mechanical drawing. The requirement is waived, however, for a student certifying to the instructor an equivalent of this course; by submitting certified work in lettering; or by passing a special examination.

1 unit, autumn, *winter, and *spring quarters (Thomas) W or F 1:05–4:05
autumn, 86; winter, 54; spring, 51

3. Descriptive Geometry.—Dealing with principles and methods used in making drawings of objects and geometrical magnitudes, with mathematical exactness, and in solving problems involving their space relations, without going into details of shop notes, field notes, machine drawing and design, topographic and geologic mapping, to which subjects it serves as a preliminary. The principles embodied are limited to those

pertaining to the "method of choosing new projection planes," the method almost universally used in Engineering practice.

Open to students who have completed or are taking Engineering 1 and 2, or have had their equivalent; and required of those majoring in civil, mechanical, electrical, or chemical engineering, or in mining and metallurgy.

4 units, winter quarter
(CUTTER, GREEN) Rec. TTh 8 or 11; Dft. MT or ThF 1:05–4:05
winter, 176

106. Hydraulics.—Lectures and laboratory problems. Fluid pressure and equilibrium, flow of water through orifices, over weirs, in open and closed conduits. Laboratory: Calibration of instruments; measurements of pressure, velocity, flow, and friction loss of water under various conditions. Open to students who have completed Course *3a* in Applied Mathematics.

5 units, spring quarter
(MOSER) Lec. MWF 9; Lab. MWF 10–12 or TTh 9-12 or MT 1:05–4:05
autumn, 7; spring, 101

(See also hydraulic courses listed under Mechanical Engineering.)

110. Mechanics of Materials.—Lectures and laboratory problems. Strength and elastic properties of the ordinary materials of engineering construction; simple tension, compression, and shear; flexure, wit happlication to simple, continuous, and non-homogeneous beams; long columns, torsion, repeated stress, sudden stress, resilience, etc.; testing strength and elastic properties of materials and structures. Open to students who have completed Courses *3a* and *3b* in Applied Mathematics.

5 units, autumn quarter
(MOSER) Lec. MWF 9; Lab. MWF 10–12 or TTh 9–12 or MT 1:05–4:05
autumn, 99; winter, 1

111. Mechanics of Materials.—(Engineering 110 continued.)

5 units, winter quarter
(MOSER) Lec. MWF 9; Lab. MWF 10–12 or TTh 9–12 or MT 1:05–4:05
winter, 43

LABORATORY FEES.—For Courses 3, 110, and 111, $1 each; 106, $2.

CIVIL ENGINEERING

CHARLES DAVID MARX, Professor Emeritus.
CHARLES BENJAMIN WING, JOHN CHARLES LOUNSBURY FISH, LEANDER MILLER HOSKINS, LEON BENEDICT REYNOLDS, Professors.
CHARLES MOSER, Associate Professor.
EARL CHARLES THOMAS, Assistant Professor.

A. TOPOGRAPHIC ENGINEERING

20. Elementary Surveying.—Recitations: coördinates of surveying; measurements; errors; surveying methods. Field: exercises in the care, use and adjustment of instruments; traverse surveys; stadia surveys; leveling; base line measurement and triangulation; astronomical determination of azimuth. Drafting Room: plotting and adjusting traverses;

computing areas; plotting profiles; map interpretation. Prerequisites: Engineering 1 and 2, Applied Mathematics 1*a*.
5 units, autumn and *spring quarters
(THOMAS) Rec. TTh 8; Field and Dft. MTW 1:05–4:05
autumn, 29; spring, 54

21. Advanced Surveying.—Land surveying; topographic surveying; introduction to city, mine, hydrographic, and photographic surveying. Prerequisite: Course 20.
5 units, autumn quarter
(THOMAS) Rec. TTh 9; Field and Dft. WThF 1:05–4:05

23. Special Surveying.—Intended for students who have completed Course 20 or have had practical experience in surveying, and are interested in continuing some particular branch. Open only by permission.
1, 2, or 3 units, *autumn, *winter, and *spring quarters
(THOMAS) [By arrangement]
winter, 3

24. Elementary Surveying.—An abridged course intended for Mechanical Engineering students. Care and adjustment of instruments; field exercises with tape; pocket instruments; level and transit; with the application of plane surveying methods to mechanical engineering problems considered. Open to students whose major subject is Mechanical Engineering and to others only by permission. Prerequisites: Engineering 1 and 2 and Applied Mathematics 1*a*.
2 units, winter quarter (THOMAS) Field and Dft. MT 1:05–4:05
winter, 13

25. Engineering Surveys.—The application of surveying to engineering problems. Reconnaissance, preliminary, location, construction, and maintenance surveys pertaining to railroads, highways, waterways, etc. Prerequisites: Courses 20 and 21.
4 units, spring quarter
(THOMAS) Rec. TTh 9; Field and Dft. WThF 1:05–4:05
autumn, 19; spring, 17

126. Special Engineering Surveys.—Courses arranged to meet special needs of students who have completed the preceding course (25) or have had considerable experience in engineering surveys, field work being possible only when two or more students elect to pursue the same work. Open only by permission.
1 to 5 units (THOMAS) [By arrangement]

B. ENGINEERING ECONOMICS

130. Engineering Economics.—The business side of engineering. An analysis of economic factors of engineering practice: the engineer in the field of service, investment choice, estimating, business units, business statistics, valuation, depreciation, economics of service. Text, written recitations, and problems. Open to those who have 90 units of credit and to others by permission. (By permission the following course (131) may be taken at same time as 130.)
3 units, autumn, winter, and spring quartres (FISH) MWF 8
autumn, 18; winter, 38; spring, 27

131 Applied Engineering Economics.—Conditions and requirements of actual engineering practice are duplicated in this course. The student,

conferring regularly with the instructor, selects, investigates, and reports on a problem, concrete or general.

The typical *concrete problem* is one of two proposed investments that involve engineering (that is, of two proposed engineering structures, plants, operations, or enterprises, from the standpoint of owner or investor); although the problem may be limited to estimating the cost or the economic promise of a single proposed structure. The student's work consists in analyzing the problem, in estimating and combining the factors to complete the solution, and in writing a formal report on the whole investigation.

The *general problem* is either the further study of any of the divisions of engineering economics introduced in the preceding course (130); or the investigation of the economics of location, design, construction, or operation of a line of transportation (e. g., highway, railway, power line, pipe line, canal); or other similar inquiry. In any case the student's work is systematic reading, problem solving, individual conferences with the instructor and writing a formal report. Open to those who have credit for or are taking Course 130 and to others by permission.

1 or more units, autumn, *winter, and *spring quarters (Fish) [By arrangement]
autumn, 5; winter, 5; spring, 10

C. Highway and Railroad Engineering

Highway and Railroad Surveying.—(See Course 25 above.)

140. Highway and Railroad Engineering.—Individual study of one or more questions of location, design, construction, or operation of highways or of railroads. Systematic reading, assigned problems, individual conferences with the instructor, and writing a formal report. Open by permission.

1 or more units, autumn, *winter, and *spring quarters (Fish) [By arrangement]

D. Structural Engineering

150. Elements of Design.—(1) Materials. (See Mining and Metallurgy 105); (2) analytical and graphical determination of stresses in simple structures; (3) investigation of distribution of stresses in structural details. Open to students who have completed Engineering 1, 2, and 3 and have taken, or are taking, Engineering 110 and Mining and Metallurgy 105.

3 units, autumn quarter (Wing) MTW 1:05–4:05
autumn, 26

151. Elements of Design.—(1) Wood, stone, brick, lime, cement, etc., studied from engineering standpoint; (2) bearing power of soils, distribution of pressure, and details of design of simple sub-structures; (3) designs, working drawings, bills of materials and estimate of cost of some simple structure, such as a mill building or highway bridge; (4) testing physical properties of cement and other masonry materials. Prerequisite: Course 150.

5 units, winter quarter (Wing) Lec. MWF 11; Dft. and Lab. MTW 1:05–4:05
winter, 26

152. Elements of Design.—Completion of the work undertaken in Course 151.
5 units, spring quarter
(WING, THOMAS) Lec. MWF 11; Dft. and Lab. MTW 1:05–4:05
spring, 16

153. Elements of Design.—A short course to meet the requirements of students taking their major in mining, mechanical, electrical, or chemical engineering. Special applications are made to hoisting and conveying structures, mill buildings, and central station buildings. Open to students who have had Engineering 1, 2, 3, 110, and Mining and Metallurgy 105.
3 units (WING) [Quarter and hours by arrangement]
winter, 1; spring, 8

154. Structural Design.—Determination of stresses in modern types of bridges, including cantilever and swing spans, masonry arches, and arch ribs; discussion of most economical types, spans, and dimensions of bridges and bridge members; study of methods of constructing subaqueous sub-structures, shop methods, erection, inspection of material, specifications, and other factors influencing the design of structures. Designs to be made by each student to fulfill actual conditions. Prerequisite: Course 152.
5 units, autumn quarter (WING) Lec. TTh 11; Dft. WThF 1:05–4:05
autumn, 20

155. Structural Design.—Continuation of Course 154.
5 units, winter quarter (WING) Lec. and Dft. TTh 9–12; MW 1:05–4:05
winter, 13

156. Structural Design.—Continuation of Course 155.
3 units, spring quarter (WING) [By arrangement]

E. HYDRAULIC ENGINEERING

160. Collection and Storage of Water.—Design and construction of various types of dams; study of rainfall, evaporation, and run-off; methods of making stream-flow measurements; use of hydrographs and mass curves; graphics of dams,—the course being devoted to the problems of collection and storage of water for public supplies, power and irrigation. Lectures, collateral reading and computations of gravity types of dams. Prerequisites: Engineering 106, 110, 151. These may be taken, however, the same quarter.
5 units, autumn quarter (REYNOLDS) Lec. MWF 10; Dft. TTh 8–11
autumn, 25; winter, 1; spring, 1

161. Development and Distribution of Water.—Capacity, location, and construction of impounding reservoirs; occurrence and use of ground water; hydraulics and construction of wells in infiltration galleries; quantity of water required; conveyance of water in pipes, flumes, canals, and tunnels; distribution systems; fire protection; storage and equalizing reservoirs. The course deals with the development and distribution of water for city, power, and irrigation uses. Prerequisite: Course 160.
5 units, winter quarter (REYNOLDS) Lec. MWF 10; Dft. ThF 1:05–4:05
winter, 28

162. Protection and Purification of Water Supplies.—Normal quality of waters; physical, chemical, and bacteriological examination of water;

relation of water supplies to disease; purification of water by aeration, sedimentation, coagulation, and filtration; water softening, deferrization and sterilization. Lectures, collateral reading, and investigation of some source of municipal supply with report on necessary purification. Prerequisite: Course 161.

4 units, spring quarter (Reynolds) Lec. MWF 9; Dft. MWF 10–12
spring, 22

F. Sanitary Engineering

170. Municipal Sanitation.—Quantity of sanitary sewage and storm water; hydraulics of sewers; sewer surveys and investigations; design of sewers and appurtenances; pumping of sewage; estimates of quantities and costs; construction methods; supervision and inspection during construction; operation and maintenance. Collection and removal of refuse and garbage. Recitations, collateral reading, and applications by means of problems. Prerequisite: Engineering 106.

3 units, winter quarter (Reynolds) Rec. MWF 8
winter, 9

171. Disposal of Sewage and Municipal Refuse.—Characteristics of sewage; disposal by dilution; treatment by means of screens, sedimentation tanks, activated sludge, contact beds, sprinkling filters, sand filters, irrigation, and disinfection; location, design, operation, and maintenance of plants. Natural and artificial methods of disposal of city refuse. Recitations, collateral reading, and applications by means of problems and designs. Prerequisite: Course 163.

5 units, spring quarter (Reynolds) Rec. MWF 8; Dft. TTh 8–11
spring, 18

(Students who specialize in Sanitary Engineering are expected to take, in other departments, the following courses designed with the needs of sanitary engineers in mind.)

Economic Biology (Course 102).—Elementary Limnology.

3 units, winter quarter
(Becking, Peirce) Lec. and Lab. TTh 8–11; Field W 1:05–4:05

Bacteriology (Course 1).—General Bacteriology.

5 units, spring quarter (Blair) Lec. MWF 1; Lab. MWF 2–4

G. General Engineering

180. Specifications and Contracts.—Development of contract principles; varieties of construction contracts; principles of specification writing; study of actual composition and arrangement of a set of specifications covering advertisement, instructions to bidders, proposal, contract, bond, and general clauses; preparation of contracts for engineering services. Lectures, collateral reading, and practice in actual writing of specifications. Open to fourth-year students and to others by permission.

3 units, autumn quarter (Reynolds) Lec. MWF 9
autumn, 8

181. Design of Canal, River and Harbor Structures.—Conferences and designing as per arrangement. Prerequisites: Engineering 106, Civil Engineering 151, 152.

3 units, winter and *spring quarters (Wing) [By arrangement]

Laboratory Fees.—Courses 20 and 21, $4 each; 24, $2; 25, $3; 130 and 131, $1 each; 151, $2.

A Four-Year Curriculum in Civil Engineering

Department and Number	First Year Subjects	Units Autumn	Winter	Spring
	Language, Literature, etc.	3	3	3
	Citizenship	4	4	4
Appl. Math. 1a	Elementary Analysis	5	—	—
Appl. Math. 1b	Elementary Analysis	—	5	—
Appl. Math. 2a	Differential Calculus	—	—	5
Engineering 1	Linear Drawing	1	—	—
Engineering 2	Lettering	1	—	—
Engineering 3	Descriptive Geometry	—	4	—
Civ. Engr. 20	Elementary Surveying	—	—	5
		14	16	17
	Physical or Military Training	1	1	1
		15	17	18
	Second Year			
English 2	English Composition	—	3	3
	History	3	3	3
Appl. Math. 2b	Integral Calculus	5	—	—
Appl. Math. 3a	Theoretical Mechanics	—	5	—
Appl. Math. 3b	Theoretical Mechanics	—	—	5
Physics 11	Statics Laboratory	—	1	—
Physics 12	Dynamics Laboratory	—	—	1
Civ. Engr. 21	Advanced Surveying	5	—	—
Civ. Engr. 25	Engineering Surveys	—	—	4
Economics 3	Accounting	—	4	—
Mech. Engr. 12	Machine Drawing	3	—	—
		16	16	16
	Physical or Military Training	1	1	1
		17	17	17
	Third Year			
Physics 13	Heat†	—	4	—
Physics 14	Electricity†	—	—	4
Geology 1a	Dynamical Geology	5	—	—
Engineering 110	Mechanics of Materials	5	—	—
Engineering 111	Mechanics of Materials	—	5	—
Engineering 106	Hydraulics	—	—	5
Civ. Engr. 130	Engineering Economics	—	3	—
Civ. Engr. 131	Applied Engineering Economics	—	—	3
Civ. Engr. 150	Elements of Design	3	—	—
Civ. Engr. 151	Elements of Design	—	5	—
Civ. Engr. 152	Elements of Design	—	—	5
Mech. Engr. 123	Testing of Engines**	—	4	—
Min. & Met. 105	Metallurgy of Iron and Steel	3	—	—
		16	17	17

† Not required of students who have fulfilled Lower Division requirements.
** Students taking Physics 13 will not be required to take this course.

Department and Number	Fourth Year Subjects	Units Autumn	Winter	Spring
Civ. Engr. 140	Highway and Railway Engineering*	3	—	—
Civ. Engr. 154	Structural Design	5	—	—
Civ. Engr. 155	(Structural Design*)	—	(5)	—
Civ. Engr. 160	Water Supply Engineering	5	—	—
Civ. Engr. 161	Water Supply Engineering	—	5	—
Civ. Engr. 162	Water Supply Engineering	—	—	5
Civ. Engr. 170	Municipal Sanitation	—	3	—
Civ. Engr. 171	Disposal of Sewage and Refuse	—	—	5
Civ. Engr. 180	Specifications and Contracts	3	—	—
Mech. Engr. 236	(Pumping Machinery*)	—	(3)	—
El. Engr. 102,122	Electricity in Engineering	—	4	—
El. Engr. 103,123	Electricity in Engineering	—	—	4
		16	15 or 17	14

Courses Suggested as Suitable for Election by Students in Civil Engineering

Courses Having No Prerequisites

Economics	6.	Introduction to Statistical Methods. 4 units, spring.
Economics	21.	Public Finance. 4 units.
Mech. Engr.	1.	Forge Practice. 3 units, any quarter.
Mech. Engr.	3.	Foundry Practice. 3 units, any quarter.
Mech. Engr.	5.	Woodworking. 3 units, any quarter.
Mech. Engr.	11.	Free-hand Machine Drawing. 3 units, autumn or spring.
English	4.	Vocal Expression. 3 units, any quarter.
Graphic Art	1.	Still-life Sketching. 3 to 5 units, autumn.
Graphic Art	4.	Perspective. 5 units, winter.
Graphic Art	5.	Art of House Design. 5 units, spring.
Philosophy	1.	Logic. 5 units, autumn.

Courses Requiring Special Preparation

Appl. Math.	101.	Nomographs. 2 to 4 units, autumn.
Appl. Math.	150.	Practical Astronomy. 3 or 4 units, spring.
Appl. Math.	152.	Adjustment of Observations. 3 units, winter.
Appl. Math.	153.	Geodesy. 3 units, spring.
Bacterioloy	1.	General Bacteriology. 5 units, spring.
Econ. Biol.	102.	Elementary Limnology. 3 units, winter.
Economics	5.	Railway Transportation. 4 units, autumn or winter
Economics	29.	Intermediate Accounting. 4 units, autumn or spring.
Economics	107.	Railway Administration. 2 units, winter.
Economics	113.	Introduction to Cost Accounting. 4 units, winter.
Economics	120.	Corporation and Trust Finance. 4 units, winter.
Civ. Engr.	126.	Special Engineering Surveys. 1 to 5 units, any quarter.
Mech. Engr.	107.	Machine Shop Practice. 4 units, any quarter.
Mech. Engr.	225.	Testing of Hydraulic Machinery. 3 units, autumn.
Mech. Engr.	237.	Hydraulic Machinery and Power Stations. 5 units, spring.
English	7.	Extemporaneous Speaking. 3 units, any quarter.
English	8.	Public Speaking. 3 units, winter.
English	131.	Exposition. 4 units, winter.
English	132.	Argumentation. 3 units, spring.
Geology	121.	Common Minerals and Rocks. 4 units, autumn.
Law	100, 101.	Business Law. 3 units, autumn and winter.
Min. & Met.	101.	Principles of Mining. 4 units, autumn.
Polit. Sci.	110.	Administrative Organization. 4 units, autumn.
Psychology	51.	General Psychology. 3 units, autumn.

* In special cases the department may accept some other course as a substitute for the course so marked.

( ) Only one of these courses necessary.

ELECTRICAL ENGINEERING

HARRIS JOSEPH RYAN, Professor.
JAMES CAMERON CLARK, Associate Professor.
HENRY HARRISON HENLINE, Assistant Professor.
WARD B. KINDY, THEODORE HARDING MORGAN, Instructors.

The department offers courses of instruction for three groups of engineering students:

1. GENERAL GROUP.—Courses 102, 103, 122, and 123 (Electricity in Engineering) are offered especially for fourth-year students in civil, mining, and chemical engineering.

2. DYNAMIC GROUP.—Courses 104, 105, 106, 124, 125, and 126 are open to all fourth-year students and are offered especially for students in mechanical engineering.

3. ELECTROTECHNIC GROUP.—The department admits as major students only those who have been granted the Stanford A.B. degree in engineering and who have completed the department's Courses 104, 105, 106, 124, 125, and 126, and those graduates of other institutions who present corresponding credits. Major students are recommended for the degree of Engineer in Electrical Engineering upon completion of Electrical Engineering Courses 207, 208, 210, 219, 240, and 241; Physics 20 or 100; and Applied Mathematics 100 (37 or 39 units), with electives as approved (6 to 17 units); total, 45 to 54 units.

UPPER DIVISION COURSES

102. Electricity in Engineering.—A course for non-electrical engineering students. Prerequisites: first seven quarters of any of the Stanford engineering curricula and registration in Electrical Engineering 122.
2 units, winter quarter (CLARK) TTh 9
winter, 17

103. Electricity in Engineering.—Continuation of Course 102. Prerequisites: Courses 102 and 122 and registration in Course 123.
2 units, spring quarter (CLARK) TTh 9
spring, 6

104. Direct Current Machinery.—Introductory study of direct current meters, machines, and auxiliaries. Prerequisites: Applied Mathematics 3; Engineering 3 and 111; Physics 15; and registration in Electrical Engineering 124.
2 units, autumn quarter (HENLINE) TTh 9 or 10
autumn, 56

105. Alternating Current Machinery.—Alternating current circuits, instruments, alternators, and transformers. Prerequisites: Courses 104 and 124 and registration in Course 125.
2 units, winter quarter (HENLINE) TTh 10 or 11
winter, 55

106. Electrical Machinery.—Induction and synchronous machines, converters, rectifiers, and transmission lines. Prerequisites: Courses 105 and 125 and registration in Course 126.
3 units, spring quarter (HENLINE) MWF 11
spring, 35

122. Electricity in Engineering.—A laboratory course to accompany Course 102. Prerequisite: registration in Course 102.
2 units, winter quarter (CLARK) T or Th 1:05–4:05
winter, 27

123. Electricity in Engineering.—A laboratory course to accompany Course 103. Prerequisite: registration in Course 103.
2 units, spring quarter (CLARK) T or Th 1:05–4:05
spring, 6

124. Direct Current Machinery Laboratory.—In conjunction with Course 104. Prerequisite: registration in Course 104.
3 units, autumn quarter [Quiz by arrangement]
(HENLINE, KINDY, MORGAN) MW or F 1:05–4:05 or S 9–12
autumn, 55 (2 groups)

125. Alternating Current Machinery Laboratory.—In conjunction with Course 105. Prerequisite: registration in Course 105.
3 units, winter quarter [Quiz by arrangement]
(HENLINE, KINDY, MORGAN) MW or F 1:05–4:05 or S 9–12
winter, 57 (2 groups)

126. Electrical Machinery Laboratory.—A course in the characteristic performance of standard electrical machinery and auxiliary apparatus. Prerequisite: registration in Course 106.
4 units, spring quarter [Quiz by arrangement]
(HENLINE, KINDY, MORGAN) MW or F 1:05–4:05 or S 9–12
spring, 33 (2 groups)

COURSES PRIMARILY FOR GRADUATES

207. Electrical Engineering.—A course in general practice relating to equipment and methods as affected by the requirements of economics, reliability, and safety. Required of electrical engineers. Prerequisites: Courses 105 and 125.
3 units, spring quarter (RYAN) MWF 8
spring, 23

208. Electric and Magnetic Circuits.—Essentially a problem course; class work. Prerequisites: Courses 106 and 126.
5 units, autumn quarter (CLARK) [By arrangement]
autumn, 10

210. Advanced Electrotechnics.—A course developed with particular reference to the study of the problems of long-distance transmission of energy. Prerequisites: Course 208 and Applied Mathematics 100.
3 units, winter quarter (CLARK) [By arrangement]
winter, 9

211. Electrical Engineering Practice.—Guidance for the individual in the study of the Transactions of the American Institute of Electrical Engineers and other literature of practice.
5 units, spring quarter (RYAN) [By arrangement]
spring, 4

219. Seminar.—A weekly conference for the discussion of current electrical engineering literature and special topics.
2 units, autumn, winter, and spring quarters (RYAN) [By arrangement]
autumn, 9; winter, 11; spring, 7

240. High Voltage Laboratory Practice and Research.
5 units, autumn quarter (RYAN, HENLINE) [By arrangement]
autumn, 10

241. Thesis.—Subjects as approved for the individual Electrical Engineering majors.
4 units, winter quarter; 5 units, spring quarter
(RYAN, HENLINE) [By arrangement]
winter, 11; spring, 9

242. Research.
(RYAN, HENLINE) [By arrangement]

The Stanford Branch of the American Institute of Electrical Engineers is an organization authorized by the Institute and maintained by the students for the discussion of the Journal of the Institute, with other topics.

DEPARTMENT FEES.—Laboratory, $1 per unit of university credit; syllabus (applicable to syllabus, lantern slides, and charts), 50c to $1 per course.

MECHANICAL ENGINEERING

WILLIAM FREDERICK DURAND, WILLIAM RANKINE ECKART, †EVERETT PARKER LESLEY, GUIDO HUGO MARX, Professors.
CHARLES NORMAN CROSS, LAWRENCE EDMINISTER CUTTER, HORATIO WARD STEBBINS, Associate Professors.
BOYNTON MORRIS GREEN, Instructor.
†ROBERT HENRY HARCOURT, JAMES BENNETT LIGGETT, THERON JAMES PALMATEER, EDWARD JOHN STANLEY, Teaching Specialists.

In order to obtain the number of units necessary for graduation, it is expected that the required supplementary courses be elected in considerable degree from among the other engineering courses offered in the department. A five-year curriculum leads to the degree of Mechanical Engineer, and students successfully completing the first four years, with sufficient additional units for graduation, are granted the degree of Bachelor of Arts.

The courses constituting the work of the five-year curriculum are as follows:

FIRST YEAR.—Citizenship (12 units); chemistry 7, 9, 4 (7); applied mathematics 1*a*, 1*b*, 2*a* (15); shopwork: M. E. 1, 3, 6 (9).

SECOND YEAR.—Foreign language (9 units); physics 10, 11, 12, 13 (8); machine sketching and elementary machine drawing: M. E. 11, 12 (6); descriptive geometry: engineering 3 (4); mining and metallurgy 105 (3); applied mathematics 2*b*, 3*a*, 3*b* (15).

THIRD YEAR.—History (9 units); physics 14, 15 (8); applied mechanics and hydraulics: engineering 110, 106 (10); shopwork: M. E. 7 (4); machine design: M. E. 113 (8); English composition (6).

FOURTH YEAR.—Machine design: M. E. 114 (8); mechanical laboratory: M. E. 121*, 122, and 123 (9); technical reports: M. E. 131 (3); heat engines: M. E. 132 and 133 (8); electrical machinery:

*This course is elective for students taking 7 units of E. E. 106 and 126.
†Absent on leave, 1923–24.

E. E. 104, 105, 124, and 125 (10); electrical engineering: E. E. 106 and 126‡ (7).

Fifth Year.—Shop administration: M. E. 210 (4); advanced machine design: M. E. 216 (4); mechanical laboratory work: M. E. 225, 226 (6); applied thermodynamics: M. E. 234 (4); central power stations: M. E. 235 (3); hydraulic machinery and power stations: M. E. 237 (5); pumping machinery: M. E. 236 (3).

The foregoing courses represent the requirements for the student entering with full entrance credit, including 1½ to 2 units in algebra, 1 unit in plane geometry, ½ unit in trigonometry, 1 unit in physics, 1 unit in chemistry, 2 units in one foreign language, 1 unit in history, 1 unit in biological or general science, ½ unit in mechanical or geometrical drawing, and ½ unit in woodwork. For the student without this measure of entrance credit the requirements are correspondingly greater.

In the case of the student whose preparatory records show excellence, not only in mathematics and chemistry, but also in general training, Applied Mathematics 1*a* (5 units) may be omitted, with the approval of the instructor; and where a student offers entrance credit in chemistry, Courses 7, 9, and 4 in chemistry (7 units) are to be taken in place of 1, 2, 3, and 4, thus offering opportunity for five additional elective units.

In the usual case, especially for the student carrying more than the normal number of 15 units registration, there is a considerable amount of additional time for elective work in the various engineering departments or in other departments of the University.

Shopwork and Administration

1. Forge Practice.—Required of Mechanical Engineering students; two laboratory periods and one lecture per week.
3 units, autumn, *winter, and *spring quarters (Harcourt) [Not given in 1923–24]

3. Foundry Practice.—One quarter (4 units) required of Mechanical Engineering students; two laboratory periods and one lecture per week.
3 units, autumn, *winter, and *spring quarters (Liggett) Lec. S 8
autumn, 29; winter, 13; spring, 21

5. Woodworking.—One quarter (3 units) required of students not having entrance credit in woodworking; three laboratory periods per week. The course is a prerequisite for M. E. 6.
3 units, autumn, *winter, and *spring quarters (Stanley) [By arrangement]
autumn, 17; winter, 5

6. Pattern Making.—One quarter (4 units) required of Mechanical Engineering students; two laboratory periods and one lecture per week.
3 units, autumn, *winter, and *spring quarters (Stanley) Lec. S 8
winter, 15; spring, 22

107. Machine Shop Practice.—For upperclassmen only. One quarter (4 units) required of Mechanical Engineering students; three laboratory periods and one lecture per week. Prerequisites: M. E. 1 and 3.
4 units, autumn, *winter, and *spring quarters (Palmateer) Lec. S 9
autumn, 22; winter, 12; spring, 26

210. Shop Administration.—A course of lectures on workshop organization and administration, factory accounting, wage systems, selection

‡Four units of this course elective for those taking M. E. 121.

of machinery, factory methods, etc. Prerequisites: Courses 1 to 107 inclusive.

4 units, winter quarter (LESLEY) [Not given in 1923–24]

MACHINE DRAWING AND DESIGN

11. Freehand Machine Drawing.—Practice in making freehand sketches of machine parts, and dimensioning them in practical form for use in the shop, the sketches being made according to the principles of orthographic projection; the aim being to train the student in the reading of machine drawings through making a considerable number of sketches from actual machines and machine parts, at the same time familiarizing him as much as possible with the actual parts. Open to all students and required of students in Mechanical Engineering. Nine hours per week.

3 units, spring and *autumn quarters
(CUTTER, GREEN) TTh 9–12; MTWThF 1:05–4:05
autumn, 116; spring, 33

12. Elementary Machine Drawing.—Practice in making both working drawings of machine parts and tracings from these drawings, the purpose of the course being not only to train the student in the technique of drafting and dimensioning, but also to familiarize him with the elements of machines, no drawings, therefore, being made from copy, but all from the student's own sketches of the actual model. Nine hours per week in drafting room; three hours' work for one unit credit. Prerequisites: Courses 1, 2, and 3 in Engineering or their equivalents, and, for Mechanical Engineering students, Course 11 in Mechanical Engineering.

3 units, autumn and *spring quarters
(CUTTER, GREEN) TTh 9–12; MTWThF 1:05–4:05
autumn, 35; spring, 65

113. Elementary Machine Design.

a. Function of machines; motion, force, and work in machines; analysis of mechanism; velocity, acceleration, and effort diagrams; parallel motions; cams; ratchets; toothed wheels; valve gear analysis and design; the aim being, not merely to present a course in pure mechanism, or kinematics, but also (by the introduction of the consideration of force, work, and energy, as well as motion) to show the purposes for which the mechanisms are used and the manner in which they function.

3 units, winter and spring quarters (MARX) Lec. MWF 8
winter, 55; spring, 55

b. Drafting course applying the principles treated in *a* taken together with it, and required of students in Mechanical Engineering. Prerequisites: Courses 1, 2, and 3 in Engineering and Course 12 in Mechanical Engineering.

1 unit, winter and spring quarters (GREEN) Dft. W 1:05–4:05
winter, 54; spring, 55

114. Machine Design.—Study of machine elements, such as bolts and screws; riveted joints and boiler design; keys, fits and fitting; axles, shafts, and spindles; journals, bearings, friction, and lubrication; ball and roller bearings; sliding surfaces; couplings and clutches; gear, belt, rope and chain transmission systems; flywheels; brakes; springs;

frames and supports; cylinders, etc.; leading to the design of complete simple machines. Open to students who have completed Course 113 in Mechanical Engineering, Course 105 in Mining and Metallurgy, and are taking Course 110 in Engineering; two quarters being required of students in Mechanical Engineering. Two hours per week in recitations and lectures, six hours in the drafting-room, throughout the year.

4 units, autumn, winter, and spring quarters
(Marx) Lec. TTh 8; Dft. TTh 1:05–4:05
autumn, 45; winter, 49; spring, 14

216. Advanced Machine Design.—This course, in the designing of complete machines, is intended for fifth-year students who have completed Courses 114, 132, and 133, and who may choose for the work machine tools, cranes, steam or gas engines, or special problems. One lecture and nine hours drafting per week.

4 units, autumn quarter
(Marx, Cutter, Green) Lec. F 10; Dft. 1:05–4:05 by arrangement
autumn, 6

Experimental Engineering

(Laboratory sections in experimental engineering are arranged in groups of three students, allowed, with due regard to priority of application, to arrange their own sections and laboratory periods in so far as the laboratory schedule permits. Enrollment with the instructor concerned, on registration day or the first day of university instruction, is essential both for preparation of the laboratory schedule and selection of a lecture period to meet the requirement of the class as a whole. Enrollment later than the first week is not permitted under any circumstances.)

121. Valuation of Fuels and Oils for Engineering Purposes.—Includes determinations of the proximate analysis of coal; the calorific value of coals, fuel oils, and gas; the moisture contents of fuel oils; the density, viscosity, flash, burning and chill points of oils; and the coefficient of friction of lubricated bearings. Open to students who have completed courses Chemistry 1 and *b*, Physics 10–13; required of students in Mechanical Engineering; and elective for those taking 7 units of Courses E, E. 126, 207. One lecture, three hours in the laboratory, and ten hours on reports per experiment.

3 units, autumn quarter
(Stebbins) Lec. TTh. 9; Lab. 1:05–4:05 by arrangement
autumn, 56

122. Calibration and Use of Engineering Instruments.—Includes thermometers, gas and steam meters, planimeters, steam-engine indicators, absorption brakes, transmission dynamometers and steam calorimeters. Open to students who have completed Chemistry 1 and *b*, Applied Mathematics *2b*, Physics 10–13, and required of students in Mechanical Engineering. One lecture, three hours in the laboratory, and ten hours on reports per experiment.

3 units, winter quarter
(Stebbins) Lec. TTh. 9; Lab. 1:05–4:05 by arrangement
winter, 65

123. Heat Engines, Theory and Laboratory.—A brief course covering the fundamentals of theory and the general methods of testing steam boilers, engines, tnd turbines, gas engines, and air compressors.

Open to all engineering majors (except Mechanical Engineers) who have completed Physics 10–13 and Applied Mathematics 3*a*, *b*. Two lectures per week and seven experiments, each requiring three hours in the laboratory and about twelve hours on reports.

4 units, winter quarter
(ECKART) Lec. TTh 8; Lab. 1:05–4:05 by arrangement
winter, 19

124. Testing of Engines, Boilers, and Compressors.—Includes valve setting, flue-gas analysis, economy tests of steam engines and steam turbines, gas engines, boilers, and air compressors. Open only to students who have completed Mechanical Engineering 132 (the first quarter of Heat Engines, 4 units) and required of students in Mechanical Engineering. One lecture, three hours in the laboratory, and ten hours on reports per experiment.

3 units, spring quarter
(ECKART or STEBBINS) Lec. TTh 11; Lab. 1:05–4:05 by arrangement
spring, 55 (2 groups)

225. Testing of Hydraulic Machinery.—Includes tests of centrifugal, rotary, jet, and steam pumps, pulsometers, hydraulic rams, waterwheels, and hydraulic turbines. Open to students who have completed Engineering 106 and Mechanical Engineering 123 or 124, and 132. One lecture, three hours in the laboratory and ten hours on reports per experiment.

3 units, autumn quarter
(ECKART) Lec. TTh 8; Lab. 1:05–4:05 by arrangement
autumn, 11

226. Testing of Heat Exchangers and Power Plant Auxiliaries.—Includes tests of feed water-heaters, economizers, condensers, injectors, blowers, turbo-compressors, and refrigerating machinery. Open to students who have completed Courses 124 and 225. One lecture, one conference, three hours in the laboratory, and ten hours on reports per week.

3 units, winter quarter
(ECKART) Lec. TTh 8; Lab. 1:05–4:05 by arrangement
winter, 9

227. Testing of a Complete Power Plant.—A comprehensive test reviewing and coördinating the work of Courses M. E. 121, 122, 124, 225, and 226. Includes the planning and arranging of all details, the calibration of all instruments, and the preliminary runs for valve and other adjustments in accordance with the code of the A. S. M. E. A final report to be made by the section as a whole, copies being prepared for each student and one for the laboratory files. Open only to students who have completed M. E. 121, 122, 124, 225, and 226, and not given unless at least six students register.

2 units, spring quarter (ECKART) [By arrangement]

230. Experimental Investigation of Mechanical Engineering Problems.—Open to all students who have completed Courses 121, 122, and 124 and whose work has indicated ability to carry on successfully advanced work of this nature.

3 to 6 units, autumn, *winter, and *spring quarters
(ECKART, STEBBINS) [By arrangement]
autumn, 1; winter, 1; spring, 1

Power Plant Engineering

131. Engineering Reports and Specifications.—Practice writing, with occasional lectures, and required of fourth-year students in Mechanical Engineering.
3 units, autumn and *spring quarters (Lesley) [Not given in 1923–24]

132. Heat Engines.—Mechanical theory of heat and its applications, and required of fourth-year students in Mechanical Engineering. Prerequisites: Applied Mathematics *2a, 2b,* and Physics 11, 12 and 13.
4 units, autumn quarter
(Cross) (Office work by arrangement) Lec. MWF 10
autumn, 62

133. Heat Engines.—Continuation and application of course 132. (Three lectures and three hours office work per week.) Required of fourth-year students in Mechanical Engineering.
4 units, winter quarter
(Cross) (Office work by arrangement) Lec. MWF 10
winter, 58

234. Applied Thermodynamics.—Continuation of Courses 132, 133 and required of fifth-year students in Mechanical Engineering. Irreversible operations, flow of gases and vapors, design of turbine nozzles. Application of thermodynamic theory to advanced and special problems. Three lectures and three hours office work per week. Prerequisite: Courses 132 and 133.
4 units, spring quarter
(Cross) (Office work by arrangement) Lec. MWF 10
spring, 9

235. Central Power Stations.—Study of the principal problems presented by the design and operation of modern central power stations driven by heat-prime movers. Two lectures and three hours office work per week.)
3 units, autumn quarter
(Durand) (Office work by arrangement) Lec. TTh 9

236. Pumping Machinery.—Discussion of the principal problems arising in the design and operation of pumping machinery of various types—direct, centrifugal, rotary, propeller; and for various purposes—general service, boiler feed, fire service, mine drainage, irrigation, municipal supply, oil line service, etc. Two lectures and three hours office work per week. Prerequisites: Course 132 and Engineering 106.
3 units, winter quarter
(Durand) (Office work by arrangement) Lec. TTh 9
autumn, 17; winter, 39; spring, 11

237. Hydraulic Machinery and Power Stations.—Elements of hydraulic machinery with special reference to prime movers, and of the design of hydraulic power stations with special reference to modern hydroelectric practice; general control of water in tunnels and penstocks, surge chamber, control of surges and shocks, valves and regulating devices, penstocks and their installation, selection of units, characteristics of impulse and reaction types, speed regulation, installation tests, and special problems. Four lectures and three hours office work per week. Prerequisite: Engineering 106.
5 units, spring quarter
(Durand) (Office work by arrangement) Lec. TTh 9
spring, 44

238. Power Plant Economics.—A brief study of fundamental financial calculations, equipment costs, best type of prime mover, economic size of units, load curves. Two lectures per week with problems.
3 units, spring quarter (Cross) Lec. TTh 10

Aeronautics

140. Theory of Flight.—Discussion of elementary principles and application to the chief problems arising in the theoretical discussion of the flight of air-craft heavier than air. Two lectures with collateral problems.
2 units, winter quarter (Durand)
winter, 9

141. Aerodynamic Laboratory.—Experimental investigation of airplane propellers and other aerodynamic problems.
3 units, autumn, *winter, and *spring quarters (Durand) [By arrangement]

Special Research

251. Thesis.—Investigation of some engineering problem, and required of candidates for degree of Engineer.
2 to 15 units, autumn, *winter, and *spring quarters
(Entire Staff) [By arrangement]
autumn, 4; winter, 3; spring, 5

Department Fees.—Courses 1, 3, 5, 6, and 107, $10 each; Course 227, $3; Courses 121, 122, 123, 124, 225, and 226, $5 each; Course 230, $1.50 per credit hour; Courses 235, 236, 50 cents each.

ENGLISH

†Raymond Macdonald Alden, William Herbert Carruth, John S. P. Tatlock, Professors.
George Philip Krapp (Columbia University), Acting Professor.
Carleton Brown (Bryn Mawr College), Acting Professor (Summer Quarter).
William Dinsmore Briggs, Henry David Gray, Samuel Swayze Seward, Jr., Mary Yost (Dean of Women), Associate Professors.
Howard Judson Hall, Arthur Garfield Kennedy, Edith Ronald Mirrielees, FraQces Theresa Russell, Assistant Professors.
Margery Bailey, Frederick Lape, George Pope Shannon, Lawrence Bergmann Wallis, Instructors.
Hope Traver (Mills College), Special Lecturer (Autumn Quarter).

Requirements for the Degree of Bachelor of Arts

a. The courses ordinarily prescribed in the major subject include Chaucer, Shakespeare (Courses 25 and 159), the advanced courses (181, 182, 183, 184) in the History of English Literature (four quarters), and an advanced course in a single author (Milton, Wordsworth, or Spenser, for example), besides such preliminary courses in composition, vocal

† Absent on leave 1923–24.

expression or literature as may be advised in individual cases. In the advanced courses in English Literature one of two substitutions may be made: (1) for Course 182, the course in Elizabethan Drama (170); or (2) for Course 183, the course in Modern English Fiction (168). For the requirements in the case of students making English their major subject with special reference to public speaking or journalism, see below under the Divisions of Public Speaking and Journalism.

b. It is further required that, in one foreign language and literature, the student pursue work sufficient for the acquirement of (1) a practical reading knowledge of the language chosen; and (2) some acquaintance with its most important literature. This requirement is not primarily a matter of formal credit-hours, but ordinarily demands a minimum of 24 units of college work in the chosen language, aside from elementary courses (two years in the high school or one in the Univesity). Students should be sure that their language studies are so planned as to accomplish the ends desired. Introductory courses in Latin and Greek, if pursued in the University, are counted as college work. In general those who make Latin or Greek their principal language are advised to include, among their elective studies, two years' work in a modern language; and those choosing a modern language are encouraged to include among their elections two years' work in Latin or Greek.

c. A course in English History is also prescribed for those who have not had a separate course in the subject in the high school.

Certain courses (such as 21 and 168, 14, 23, and 27), which cover more or less of the same ground, may not be elected by the same student without consultation with the instructors.

The Teacher's Recommendation.—The High School Teacher's Certificate is granted by the state to students who have fulfilled the state requirements as set forth in the *Information Bulletin,* involving for applicants without experience one full year of graduate study. Recommendation by the department is granted by vote to students whose work has been of high character. It should be distinctly understood that a mere passing grade does not entitle a candidate to the endorsement of the department. For major students of the department the courses ordinarily prescribed, in addition to those required for the degree of A.B., are the History of the English Language (198), Versification (199), and Teacher's English (200). For the courses required of students belonging to other departments, and seeking a recommendation in English as a major or minor subject, see the *Announcement of the School of Education.*

Advanced Degrees

The candidate for the Master's degree in English must have: (1) the equivalent of the requirements for the A.B. degree in English; (2) an elementary knowledge of Old English; and (3) a reading knowledge of two foreign languages (preferably one ancient and one modern). The work for the degree must occupy at least one full year of graduate study in residence, the greater part in English, the remainder in related fields. The courses in English will be divided between the earlier and later periods. The candidate must also present a thesis demonstrating his power of concentrated, independent study, and prepared under the direction of a member of the department, this thesis to be accepted

in lieu of not more than nine units of the work. In addition, a general examination on English literature is given.

For the conditions necessary to acquire the Doctor's degree, see the *Graduate Study Bulletin.*

Preliminary and General Courses

(In general, Courses 9–15 are open to first-year, and Courses 22–29 to second-year, students.)

1. Elementary Composition.—A one-quarter course required of all first-year undergraduates who do not pass the matriculation test in English.

1 unit, autumn, *winter, *spring, and *summer quarters
(Bailey and others) TThS 8; MWF 8, 9, 10, 11, 1:05
autumn, 82 (5 sections); winter, 85 (5 sections); spring, 71 (4 sections); summer, 16

(For each student, excepting those who meet the requirement within a short time, a fee of $10 is charged.)

2. English Composition.

a. Narration and Description.
autumn, 237 (10 sections); winter, 163 (6 sections); spring, 75 (3 sections)

b. Exposition.
autumn, 84 (4 sections); winter, 175 (7 sections); spring, 193 (9 sections)
3 units, any two quarters
(Seward, Yost, Shannon, Wallis, and others) TThS 8; MWF 8, 9, 10, 11, 1:05

9. American Literature.—(a) To the Civil War (first quarter); (*b*) from the Civil War to the present (second quarter). Either part may be taken alone. Except by special permission, not open to students having entrance credit in American literature, and open to seniors only with reduced credit.

5 units, winter quarter; 3 units, spring quarter
(Hall) (winter) MTWThF 11; (spring) MWF 9
winter, 54; spring, 29; summer, 20

10. English Masterpieces.—A study of representative works of important English writers; may be taken two quarters, to the extent of eight units of credit: (*a*) writers before 1700 (3 units); (*b*) writers of the 18th and 19th centuries (5 units). Open to other than first-year students only by permission.

3 or 5 units, autumn, winter, spring, and summer quarters
(Mirrielees, Bailey, Wallis) (autumn) (*a*) MWF 11; (*b*) MTWThF 9
(winter and spring) (*a*) MWF 11; (*b*) MTWThF 8; (summer) (*a*) MTWThF 8
autumn, 174 (2 sections); winter, 96 (2 sections); spring, 86 (2 sections); summer, 26

11. Introduction to Poetry.—A study of the nature, methods, and forms of poetry, with exercises in analysis and interpretation. Open to students of all departments; to seniors only with reduced credit.

4 units, winter quarter (Seward) MTWF 9
winter, 12

12. Introduction to Essay Reading.—Essays, chiefly contemporary, designed to form a stimulating approach to this type of literature.

3 units, spring quarter (Russell) MWF 9
autumn, 1; spring, 53

13. Biography.—A study of biography and memoirs, with written reports. Limited to Lower Division students.
3 units, one quarter (MIRRIELEES) [Not given in 1923–24]

14. Tennyson.—A study of portions of Tennyson's work, illustrating the growth of his literary art. A general course, designed for Lower Division students, and open to others by permission only.
4 units, autumn quarter (HALL) MTWF 11
autumn, 26

21. Victorian Novelists.
4 units, one quarter (SEWARD) [Not given in 1923–24]

22. Victoran Prose.
3 units, winter quarter (SEWARD) MWF 10
winter, 18

23. Victorian Poetry.
3 units, summer quarter (SEWARD) [Not given in 1923–24]

24. English Bible.—Representative portions of the Old Testament studied as literature.
3 units, autumn quarter (GRAY) MWF 10
autumn, 48

25. Shakespeare.—An introduction, with rapid reading of a considerable number of the plays in chronological sequence. Open to all second-year students, and continued, for more advanced students, in Course 159.
4 units, spring quarter (GRAY) MTWF 10
spring, 86

27. Browning.—An introductory course, open to all students.
3 units, one quarter (RUSSELL) [Not given in 1923–24]

29. Outline History of English Literature.—A condensed chronological survey, designed primarily for second-year students intending to make English their major subject.
5 units, winter quarter (BAILEY) MTWThF 11
winter, 13

ADVANCED AND SPECIAL COURSES

(Unless otherwise specified, the following courses are open to third-year and fourth-year students of all departments.)

130. Advanced Composition.—A course intermediate between the elementary and the more specialized branches of written expression. Practice in various forms, with formulated criticism and illustrative reading.
4 units, autumn quarter (RUSSELL) MTWF 10
autumn, 26

131. Exposition.—An advanced course intended primarily for students in scientific and professional lines, with special attention given to students preparing theses or other papers. Prerequisite: Course 2 or equivalent.
4 units, winter quarter (HALL) MWF 10
winter, 9

132. Argumentation.—(See under Division of Public Speaking.)

134. Dramatic Composition.—The principles of dramatic writing developed in connection with the student's own work. Enrollment limited; students must submit specimens of work in advance.
3 units, autumn and winter quarters (GRAY) MWF 1:05
autumn, 11; winter, 10; spring, 7

135. Verse Writing and Prosody.—Practical exercises in lyric composition, with illustrative study of modern poets. Open by permission to second-year students who have had six units in English composition.
3 units, spring quarter (CARRUTH) TTh 10
spring, 14

136. Short Story Writing.—A study of the structure of the short story, with practice in story writing. Open by permission to students who have completed two quarters of Course 2.
3 units, winter, spring, and summer quarters (MIRRIELEES) MTW 9
winter, 16; spring, 14; summer, 15

137. Essay Writing.—Practice in writing essays of both informal and analytical character. Course 2 is a prerequisite.
3 units, winter and spring quarters (RUSSELL) F 2–4
winter, 10; spring, 8

138. Narrative Writing.—Open by permission to students who have completed Course 136.
4 units, winter quarter (MIRRIELEES) [By arrangement]
winter, 3

139. Free Reading.—Eight hours of reading weekly, with informal class reports and discussion. The course may not be taken for more than two quarters. It furnishes an opportunity for students to read books with which they should be familiar, but which are not assigned in connection with their other courses. Open to a limited number of upperclass students from other departments, but not to English major students.
2 units, any quarter (CARRUTH and others) MT 4, 5
autumn, 56 (11 groups); winter, 74 (11 groups); spring, 89 (14 groups); summer, 8

154. The Short Story.—A study of the short story in English, with especial attention to its development during the nineteenth century.
5 units, one quarter (MIRRIELEES) [Not given in 1923–24]

158. Chaucer.—An elementary course, including an outline of Middle-English grammar for the beginner. Open to third-year students who have a reading knowledge of one foreign language.
3 units, winter quarter; 4 units, summer quarter
(KENNEDY) (winter quarter) MWF 10; (BROWN) (summer quarter) MTWF 10
winter, 40; summer, 23

159. Shakespeare.—A continuation of Course 25, devoted to a more intensive study of a few plays, and designed primarily for English major students in their third year. Open to others on recommendation from Course 25.
3 units, winter quarter (KRAPP) MWF 9
winter, 26

160. Spenser.
3 units, autumn quarter (BRIGGS) MWF 10
autumn, 12

161. Milton.
3 units, one quarter (Briggs) [Not given in 1923–24]

162. Wordsworth.
3 units, one quarter (Hall) [Not given in 1923–24]

163. Browning.—*The Ring and the Book* and a selection from the dramas and longer poems.
4 units, winter quarter (Russell) MW 2–4
winter, 27

165. Introduction to Comparative Literature.—An exposition of the comparative method in literary study, with a survey of the distribution of types in world literature. Open to third-year and fourth-year students who have had not less than fifteen units (high school or college) in English literature.
3 units, winter quarter (Carruth) TWF 11
winter, 4

166. National Epics.—Theory and history of epic poetry, with reading in translation of the *Beowulf*, the *Kalewala*, and the *Mahabharata*. This course is intended to coöperate with similar courses in the departments of classical and modern literatures. Open also to graduates.
2 units, autumn quarter (Carruth) TTh 11
autumn, 8

167. The History of Prose Fiction.—Including the beginnings of English fiction to DeFoe.
3 units, autumn quarter (Carruth) TWTh 10
autumn, 14

168. English Fiction.—A course in the history of English fiction from DeFoe through the major novelists of the nineteenth century.
4 units, winter quarter (Briggs) MTWTh 10
winter, 27

169. The Modern Novel.—Lectures on European fiction from 1856 to the present time, with the reading of representative novels and reports upon them. Open to third-year and fourth-year students of all departments.
3 units, two quarters (Gray) [Not given in 1923–24]

170. The English Drama to 1642.—The beginnings and the development of the drama.
4 units, autumn quarter (Briggs) MTWF 9
autumn, 37

171. Modern Drama.—A study of Ibsen and of contemporary dramatists. Open to third-year and fourth-year students of all departments.
5 units, winter quarter (Gray) MTWThF 10
winter, 47

173. Contemporary Poetry.—A survey of English and American poetry since 1890, with especial attention to the poetic revival of the present time.
3 units, one quarter (Gray) [Not given in 1923–24]

174. The English Essay.—A study of the essay as a type, from Bacon to Ruskin.
3 units, autumn quarter (Russell) MWF 11
autumn, 19

175. Modern Essays.—A continuation of Course 174, extending from the middle of the nineteenth century to the present.
3 units, winter quarter (Russell) MWF 10
winter, 9

181. Medieval Literature, with special reference to Middle English.—A general introduction to medieval European literature, which is studied by types: romances, histories, visions, lyrics, fabliaux, etc. The course is continued in Course 209.
4 units, spring quarter (Tatlock) MTWTh 1
spring, 43

182. English Literature from 1557 to 1700, exclusive of the Drama.—Primarily for fourth-year students of the English Department.
4 units, winter quarter (Briggs) MTWTh 11
winter, 15

183. English Literature from 1700 to 1780.—Primarily for third-year students of the English Department.
4 units, autumn quarter (Bailey) MTWF 10
autumn, 39

184. English Literature from 1780 to 1832.—Primarily for third-year students of the English department.
4 units, spring and summer quarters (Hall) MTWF 11
spring, 33; summer, 12

185. English Literature and Political Thought.
4 units, summer quarter (Briggs) TWThF 10
summer, 14

186. Criticism: Undergraduate Seminar.—A course in the practical analysis and valuation of recent literature; book reviews and discussions. Limited to eight seniors, admitted from any department on recommendation.
3 units, one quarter (Alden) [Not given in 1923–24]

(The following courses [190–199] are designed for both graduate and advanced undergraduate students, and are accepted for graduate credit in the program of candidates for advanced degrees.)

190. American Poetry.—A study of the greater American poets with special reference to their relation to English and Continental literature.
4 units, spring quarter (Carruth) MTThF 11
spring, 10

191. Essay Writing: Advanced Course.—An opportunity for crystallizing and formulating opinions on such subjects as education, government, recreation, art, and personal relationships. Open only on consultation with the instructor.
3 units, autumn quarter (Russell) MWF 2
autumn, 7

192. Old English.—Elements of grammar, with reading exercises.
4 units, winter quarter (KENNEDY) MWThF 9
winter, 7

193. Beowulf.
4 units, spring quarter (KRAPP) [By arrangement]
spring, 4

194. Middle English Readings.
3 units, spring quarter (KENNEDY) MWF 8

195. The Bible in Early English.—Lectures, with readings in translation.
3 units, one quarter (KENNEDY) [Not given in 1923–24]

196. Principles of English Usage.—An examination of the grounds of choice in spoken and written English.
4 units, spring quarter (KRAPP) MTThF 10
spring, 16

197. Ideal Commonwealths.—A study of the Utopian idea and related social and political conceptions, as expressed in literature.
3 units, one quarter (RUSSELL) [Not given in 1923–24]

198. History of the English Language.
4 units, spring quarter (KENNEDY) MWThF 9
spring, 15

199. Versification.—An introduction to the theory of rhythm and meter, the history of English prosody and the problems of reading and teaching verse.
3 units, one quarter (ALDEN) [Not given in 1923–24]
winter, 10

200. Teachers' Course in English.—A study of principles and methods with special reference to secondary schools.
(*a*) Composition (autumn quarter); (*b*) literature (winter quarter); (*c*) vocal expression (spring quarter); 200*a* and 200*b*, are also given as a continuous course of 5 units in the summer quarter.
3 units, autumn, winter quarters (SEWARD) (autumn) TTh, (winter) MTh, 2:30–4
2 units, spring quarter (BASSETT) T 2–4
5 units, summer quarter (SEWARD) MTWThF 11
autumn, 18; winter, 22 (2 sections); spring, 6; summer, 31

GRADUATE COURSES

201. Introduction to English Philology and Bibliography.
3 units, one quarter (KENNEDY) [Not given in 1923–24]

202. Satire.—A study of the satiric element in literature, exemplified by some particular phase selected for specialization.
4 units, spring quarter (RUSSELL) MW 2–4
spring, 6

203. Tragedy.—A comparative study of the theory and practice of tragedy in various literatures.
4 units, two quarters (ALDEN) [Not given in 1923–24]

204. Comedy.—An inquiry into the nature of the comic and into its literary uses, as exemplified especially in the drama.
4 units, autumn and summer quarters (SEWARD) MWF 11, MTWTh 9
autumn, 7; winter, 6; summer, 11

206. Critical Theories.—A study of the principal critical writings of the age of Coleridge, with special reference to the theory of poetry.
3 units, one quarter (ALDEN) [Not given in 1923–24]

207. Tennyson.—*The Idylls of the King* compared with their sources.
3 units, one quarter (CARRUTH) [Not given in 1923–24]

208. The Tristram Theme in General Literature.—A study of the sources and migration of epic themes.
3 units, winter quarter (CARRUTH) TWTh 10
winter, 1

209. Medieval Literature.—A continuation of course 181, but may be taken by students who have not had it. Especial attention is paid to Dante and Chaucer.
3 units, winter quarter (TATLOCK) [By arrangement]
winter, 9

210. Chaucer: Advanced Course.—A study of the *Canterbury Tales*, or the *Troilus*, with attention to the structure and history of the work and its literary significance. The course may be taken for two or more quarters.
4 units, winter and spring quarters (TATLOCK) [By arrangement]
winter, 7; spring, 4

211. Shakespeare.—An introduction to the bibliography of the subject, the history of the text, and methods of critical study.
4 units, one quarter (ALDEN) [Not given in 1923–24]

212. Shakespeare.—A critical study of one or two plays.
4 units, autumn quarter (GRAY) M 2–4, and a third hour by arrangement
autumn, 11

215. Elizabethan Drama Seminar.
4 units, spring and summer quarters (GRAY, BRIGGS)
(GRAY) (spring quarter) (*a*) Beaumont and Fletcher
(BRIGGS) (summer quarter) (*b*) Jonson [By arrangement]
spring, 9; summer, 11

216. The Life and Thought of the Sixteenth Century.
4 units, autumn quarter (BRIGGS) [By arrangement]
autumn, 9

217. Journal Club.—Reports on current literature.
2 units, winter and spring quarters
(CARRUTH, KENNEDY) [Not given in 1923–24]

218a. Early English Seminar.—Legendary history of Britain.
3 units, one quarter (TATLOCK) [Not given in 1923–24]

218b. Early English Seminar.—The Siege of Troy in English literature.
3 units, one quarter (TATLOCK) [Not given in 1923–24]

220. American Colonial Literature.—A research course. Prerequisites: American history and English literature of the 18th century.
4 units, autumn and summer quarters (HALL) [By arrangement]
autumn, 1; summer, 9

230. The English Language in America.
4 units, winter quarter (KRAPP) [By arrangement]
winter, 3

231. Bibliography of Elizabethan Literature.
2 units, autumn quarter (BRIGGS) [By arrangement]
autumn, 1

232. History of Allegory.
1 unit, autumn quarter (TRAVER) [By arrangement]
autumn, 4

233. Research in Literary History.—A few qualified graduate students will receive private direction between June 28th and August 9th at the Huntington Library, near Pasadena, which offers unparalleled opportunities in early modern English; or at Stanford before and after that time. Application should be made in writing and as early as possible before June.
(TATLOCK) [By arrangement]

234. The Middle English Lyric.—A survey and study of medieval English lyric poetry, both religious and secular.
4 units (BROWN) [By arrangement]
summer, 10

DIVISION OF PUBLIC SPEAKING

LEE EMERSON BASSETT, Professor.
JAMES GORDON EMERSON, Associate Professor.
ELISABETH LEE BUCKINGHAM, Assistant Professor.
GORDON ARTHUR DAVIS, Instructor.

Students who give evidence of special aptitude for the subject may elect English as their major department in special preparation for professional work in the practice or teaching of public speaking. Such students will register with the members of this division as their advisers, and will meet the same requirements as other major students in English (see page 207), except that they may substitute work in public speaking, to the amount of 8 units, for advanced courses in literature. Ordinarily, in special training for public speaking and platform work, students are expected to complete Courses 4, 5, 7, 8, 19*a*, 132, 149, and 152. For requirements for the teaching major in public speaking, see *Announcement of the School of Education.*

[NOTE.—*All courses in public speaking are open to a limited number of students only.* Application should be made on registration day, the instructor reserving the right to refuse to enroll students not present at the first meeting of the class. In general, Courses 4 to 6 are open to first-year, and Courses 7 to 21*b* to second-year, students.]

4. Vocal Expression.—A study of the principles of oral expression and the vocal interpretation of masterpieces in prose and poetry, with supplementary work in voice development. Class recitations and personal conferences.
3 units, autumn, *winter, and *spring quarters (BUCKINGHAM)
(autumn) MWF 9, 11; (winter) MWF 9, 1:05; (spring) MWF 8, 11
autumn, 26 (2 sections); winter, 39 (2 sections); spring, 46 (2 sections); summer, 51 (2 sections)

5. Reading Aloud.—The oral rendering of various forms of literature, particular attention being given to rhythm, time, melody, quality, and other musical elements of verse. Assignments for general class practice

and for individual study and rendition. Prerequisite: Course 4 or its equivalent.
3 units, autumn, *winter, and *spring quarters
(BUCKINGHAM) (autumn) MWF 8; (winter) MWF 10; (spring) MWF 9
autumn, 21; winter, 8; spring, 26

6. Practical Phonetics.—A course in the enunciation and pronunciation of the English language. Designed especially for foreign students.
1 unit, spring quarter (BASSETT) T 1:05
spring, 7

7. Extemporaneous Speaking.—Practice in extemporaneous speaking on subjects of current interest, with attention to the preparation of speech outlines. Not open to first-year students. Preferably should be preceded by Course 4. Three sections, autumn; two, spring, winter.
3 units, autumn, *winter and *spring quarters
(BASSETT, EMERSON) (autumn) MWF 9, 11; (winter, spring) MWF 11, 1:05
autumn, 39 (2 sections); winter, 41 (2 sections); spring, 42 (2 sections); summer, 17

8. Public Speaking.—Practice in the preparation and delivery of various types of speeches with particular reference to elements of attention. Prerequisite: Course 7.
3 units, *winter quarter (BASSETT) MWF 10
winter, 17; summer, 24

19a. Vocal Interpretation.—The oral interpretation of literature, both prose and poetry. Prerequisite: Courses 4 and 5.
3 units, winter quarter (BASSETT) MWF 11
winter, 4

19b. Vocal Interpretation: Dramatic Literature.—The study of short plays of literary and dramatic merit for presentation before the class, with parts assigned. Attention given to characterization and action.
3 units, winter quarter (BUCKINGHAM) T 2:05–4:05; Th 3:05–4:05
winter, 17

120. Practical Debate.—Under supervision of the department those students who work on intercollegiate debate questions may receive credit upon satisfactory completion of the work.
1 or 2 units, any quarter except summer (EMERSON) [By arrangement]
autumn, 5 (2 groups); winter, 6; spring, 6 (2 groups)

121. Theatrical Workshop.—A theatrical laboratory in the production of plays for public presentation. Particular attention given to the construction and designing of stage scenery, and to costuming, lighting, acting and stage direction.
3 units, autumn and *winter quarters (DAVIS) T 1:05; Th 1:05–3:05
autumn, 39 (2 groups); winter, 28; summer, 41

122. History of the Theater.—A historical survey of the origin and development of the theater, its social function and significance, with a study of various kinds of theaters.
2 units, autumn and *winter quarters (DAVIS) MW 1:05
winter, 22

132. Argumentation.—The theory of argumentation, with practice in the preparation of briefs and in the writing of arguments, together with

a critical analysis of argumentative masterpieces. Open to all students who have made a satisfactory grade in English 2.
3 units, autumn quarter (EMERSON) MWF 9
autumn, 16

133. Public Speaking: Advanced.—A study of masterpieces of oratory and the preparation of original speeches, with special attention to the style of spoken discourse. Prerequisites: Courses 7, 8.
3 units, spring quarter (BASSETT) MWF 10
spring, 22

149. Voice Training.—Lectures on the voice, with class exercises.
1 unit, winter quarter (BASSETT) T 1:05
winter, 22

151. Public Reading.—A course in the preparation of poems, stories, and scenes from novels and plays for public presentation. Prerequisites: Courses 4, 5, and 19*a*.
2 units, spring quarter (BASSETT) [Not given in 1923–24]

152. Oral Debate.—Practice in the preparation and delivery of oral arguments, chiefly on current public questions. Prerequisite: Course 132.
2 units, winter quarter (EMERSON) W 2:05–4:05
winter, 6

200c. Teachers' Course in Oral Reading.—A study of the principles of expressive speech and training in reading aloud, with assignments adapted to the needs of individual members of the class. Given in connection with the Teachers' Course in English Literature and Composition. (See p. 74.)
2 units, spring quarter (BASSETT) 2:05–4:05
summer, 12

200d. Teachers' Course in Oral Expression.
2 units, winter quarter (BASSETT) T 2:05–4:05

DIVISION OF JOURNALISM

EVERETT WALLACE SMITH, Associate Professor.
BUFORD O. BROWN, Assistant Professor.

The journalism curriculum is based on the conviction that the proper college preparation for journalism is a broad course with a preponderance of English, history, economics, and political science. The Lower Division work provides an excellent foundation for such a course, the requirements bringing the student into contact with a wide variety of topics and with the electives enabling him to begin to develop his studies in the above-named subjects, which are fundamental to journalism.

The special journalism subjects, with the slight exceptions noted, are offered only to Upper Division students, and the greater part of the time of such students is devoted to non-technical subjects, students of journalism being required to specialize particularly in the work of one of the departments of English, history, economics, or political science. To this end, they are expected to make one of these their major department, and will be subject to the direction of the major department in conjunction with the instructors in the Division of Journalism, and will meet

the usual requirements of the particular department excepting where otherwise stated. If so desired, they may be classified and their diplomas marked "English (Economics, History, Political Science) Journalism."

Intending journalists are encouraged to engage in college journalism and thus to obtain practical experience during their course. When done systematically and under the supervision of the Division of Journalism, such work will be given credit toward graduation.

First- and second-year students who are members of the staff of the *Daily Palo Alto* or reporters on other newspapers, are admitted to the class in Practical Reporting for one unit of credit per quarter, provided they attend the special lectures given in connection with that course, which deal with principles and practice in newspaper work. First- and second-year students are also admitted to the course in Editorial Management, provided they meet the requirements.

In some of the journalism courses the written work must be done on the typewriter. On this account, and because ability to use the typewriter is necessary for practically all newspaper work, prospective journalism students are advised to gain this ability as early as possible.

To students making English their major subject in preparation for journalism, the department offers a variety of courses in advanced and specialized composition and in English language and literature. Such students will meet the following requirements:

(1) A minimum of 30 units of journalism, including news writing (10 units); copy reading (5 units); editorial writing or feature article writing (5 units); American journalism (3 units).

(2) A minimum of 30 units of English department courses; at least 25 of these 30 units to be selected from the following groups of courses, with a minimum of 10 units from Group II and a minimum of 6 units from Group III:

GROUP I

9. American Literature	8 units	25. Shakespeare	4 units
22–23. Victorian Literature	6 units	29. Outline History	5 units
24. Bible	3 units		
			26 units

GROUP II

158. Chaucer	3 units	174. English Essay	3 units
159. Shakespeare	3 units	181. Medieval Literature	4 units
160. Spenser	3 units	182. Literature, 1557–1700	4 units
161. Milton	3 units	183. Literature, 1700–1780	4 units
162. Wordsworth	3 units	184. Literature, 1780–1832	4 units
165. Comparative Literature	3 units	198. English Language	4 units
168. English Fiction	5 units		
			46 units

GROUP III

154. Short Story	5 units	175. Essayists	3 units
169. Modern Novel	6 units	186. Criticism	3 units
171. Modern Drama	5 units		
			22 units

(3) A knowledge of a modern foreign language sufficient to insure the rapid translation of current literature in that language.

(4) In history, a minimum of 20 units, including besides Lower Division requirements in American history, either England since 1603 or Europe since 1815.

(5) In economics and political science, a minimum of 20 units, with

Course 2 in Political Science (state and local government) strongly recommended.

(6) In addition, such courses as those in advertising, logic, argumentation, general psychology, and advanced composition, according to the particular interests and needs of the individual student.

Courses in Journalism

117a. News Writing.—Study of the structure of the news story and of news value, with practice in writing. Sources of news and methods of news gathering. Newspaper organization and news-gathering organizations. All writing in the course must be done on a typewriter.

5 units, autumn and winter quarters (Smith) MTWThF 8
autumn, 10; winter, 11

117b. Copy Reading.—A continuation of Course 117*a*. Writing of more difficult news stories. Copy reading, headline writing, and proofreading, with some attention to the mechanical operations of newspaper production.

5 units, spring quarter (Smith) MTWThF 8
spring, 12

140. Editorial Writing.—Study of the function of the editorial, with practice in writing.

5 units, autumn quarter (Smith) MTWThF 11
winter, 12

141. The Feature Article.—Study of the feature article for newspapers and magazines, with practice in writing.

5 units, winter quarter (Smith) MTWThF 11
autumn, 10

143. American Journalism.—A survey of the development of American newspapers, and a study of the work and influence of outstanding journalists.

3 units, spring quarter (Smith) MWF 11
winter, 1; spring, 14

144. Practical Reporting.—Practical work in news gathering and writing for the *Daily Palo Alto* and other newspapers, with conferences. Primarily for journalism major students and those intending to become such. Others may be admitted by special permission.

1 or 2 units, autumn, winter, and spring quarters (Smith) [By arrangement]
autumn, 12; winter, 15; spring, 24

145. Editorial Management.—Practical advanced work on the editorial staffs of campus publications, with conferences.

2 or 3 units, autumn, winter, and spring quarters (Smith) [By arrangement]
autumn, 15; winter, 17; spring, 20

146. Advertising.—A course in the principles and practice of advertising, primarily for students who are training for journalism, and covering the subject from the standpoint of the newspaper office. Reviews methods for building volume in local display, classified and foreign advertising; the preparation and selling of advertising plans for local advertising; practices between newspapers, advertisers, advertising agencies; mer-

chandising research and other services to advertisers and advertising agencies. Intended primarily for fourth-year students.
3 units, winter quarter (CUDDY) MWF 10
autumn, 65; winter, 38

147a. Newspaper Management.
winter, 30

147b. News Circulation.
spring, 49

FOOD RESEARCH INSTITUTE

CARL LUCAS ALSBERG, JOSEPH STANCLIFFE DAVIS, ALONZO ENGLEBERT TAYLOR, Directors.

The Food Research Institute is organized under a grant from the Carnegie Corporation of New York for the purpose of studying the production, distribution, and consumption of food, most of its investigations being conducted by the directors and the staff of the Institute.

Food Research Fellows participate in these investigations, as arranged with the directors, while taking supplementary courses in other departments of the University. In addition, the directors guide a limited number of other properly qualified students in research upon selected food problems, such work to count under the usual terms toward the degrees of A.M. and Ph.D.

RESEARCH COURSES

201. Food Research Problems.—Research upon subjects lying within the general field of food production, distribution, and consumption.
autumn, winter, and spring quarters
(ALSBERG, DAVIS, TAYLOR) [By arrangement]
autumn, 4; winter, 4; spring, 6

GEOLOGY

BAILEY WILLIS, Professor Emeritus.
ELIOT BLACKWELDER, AUSTIN FLINT ROGERS, JAMES PERRIN SMITH, CYRUS FISHER TOLMAN, Professors.
FRED EARLE BUSS, Acting Associate Professor (Summer Quarter).
PAUL FRANCIS KERR, Acting Instructor (Autumn Quarter).

The Department of Geology offers training in preparation for the profession of geologist and also in part for that of mining engineer. At present the fields of work generally open to graduates of the Department are those of mining geologist, petroleum geologist, state and federal geological surveys, university teaching, and institutional research.

It is important that students intending to graduate from the department should cover, before the junior year, the fundamental courses in mathematics, physics, chemistry, and languages, with a first course in geology and mineralogy as well.

The courses offered in the Department of Geology are grouped as follows: (*a*) geology, (*b*) mineralogy and petrography, (*c*) economic geology, (*d*) paleontology and stratigraphy; and the following courses are generally required of all students: Geology 1, 103, 104, 108, 109, 122, 123, 124, 142, 143, 161, and 163; Engineering 1 and 2; Applied Mathematics 1*a* and 1*b* or their equivalent; Physics 1 and 2; Chemistry, through Qualitative Analysis; two years of French or German. In addition, it should be noted that Physics 4 is a prerequisite for Geology 122, and Civil Engineering 20 for Geology 108 and 109.

In general, advanced courses should be selected only after consultation with the instructor concerned.

For the degree of Bachelor of Arts in Geology, sixty units in the department are ordinarily required. The substitution of courses in closely related departments, which are of definite value in Geology, may be accepted by the Department Committee.

GEOLOGY

1. General Geology.—The earth, its materials, structure, and internal conditions; the processes which are at work upon and within it; and a brief survey of its historical development. Desirable preparation: Elementary Chemistry and Physics.

5 units, spring and *summer quarters (Blackwelder) (spring 1924); (Buss) (summer 1924) MTWThF 8
spring, 195; summer, 34

1a. Engineering Geology.—This is Geology 1 modified with special reference to the needs of engineers, but open to others. Prerequisites: Elementary Chemistry and Physics.

5 units, autumn quarter (Blackwelder) MTWThF 11
autumn, 69

103. Structural Geology.—The conditions and processes of the earth's interior and their effects upon the material and structure of the earth. Prerequisite: Geology 1.

3 units, winter quarter (Blackwelder) MWF 8
winter, 46

104. Physiographic Geology.—The operation of surface processes and the origin of land features. Prerequisite: Geology 1.

3 units, autumn quarter (Blackwelder) MWF 9
autumn, 31

105. Regional Geology of North America.—The stratigraphy, structure, and history of the geologic provinces of the continent. Prerequisites: Geology 103, 104, and 143.

3 units, spring quarter (Blackwelder) [Not given in 1924]

108. Field Geology.—Field work with the Stanford Geological Survey, summer camps being established in the Coast Ranges. During the first half of the summer quarter, the geology of the region reached from the camps is worked out and plotted upon topographic maps and sections. All methods of geologic mapping where a topographic map is used as the base are taken up, the geologic mapping controlled by instrumental surveying being included in the second term of Geology 109. Prerequisites: Geology 103, 122, 123, 142, 143 and Civil Engineering 20.

8 units, summer quarter (first half) (Tolman)

109. Geologic and Topographic Surveying with the Plane Table.—During the second half-quarter each student member of the Stanford Geological Survey prepares a detailed topographic and geologic map of an assigned area, controlled by accurate instrumental work.
7 units, summer quarter (second half) (TOLMAN)

110. Geologic Problems or Thesis.—Advanced individual work for seniors and graduates.
3 to 5 units, each quarter (BLACKWELDER) [By arrangement]
autumn, 17; winter, 10; spring, 9

206. Advanced Structural Geology.—Given in 1924 and alternate years. Prerequisite: Geology 103.
3 units, spring quarter (BLACKWELDER) MWF 9
spring, 10

207. Sedimentation.—The characteristics of sedimentary deposits and their significance with reference to geologic history. Prerequisites: two years of geology and mineralogy.
5 units, winter quarter (BLACKWELDER) MTWThF 11
winter, 8

211. Journal Club.—All graduate students, members of the faculty, and such undergraduates as may be chosen by the staff, will meet weekly to consider papers on current research, reviews of new publications, etc. Each student will present at least one paper each quarter.
1 unit, autumn, winter, and spring quarters [Hour by arrangement]
autumn, 17; winter, 20; spring, 16

215. Research.
Each quarter (BLACKWELDER) [Units and hours by arrangement]
autumn, 2; winter, 2; spring, 3; summer, 3

MINERALOGY AND PETROGRAPHY

121. Common Minerals and Rocks.—The study of the more common and important minerals with a brief treatment of the prominent rock types. An elementary course with emphasis upon sight determination and simple physical and chemical tests. Open to students who have had Qualitative Analysis. Primarily for mining and metallurgy students, but open to a limited number of other students in order of application.
4 units, autumn quarter (KERR) Lec. WF 11; Lab. WF 1:05–4:05
autumn, 17

122. Mineralogy.—An elementary study of geometrical crystallography. The systematic study and determination of the more important non-silicate minerals. Introductory to advanced courses in mineralogy and petrography. Open to students who have had Chemistry 1, 2, 4, 7, and 20, and Engineering 3 (Descriptive Geometry) is recommended.
4 units, autumn quarter (KERR) Lec. TTh 11; Lab. TTTh 1:05–4:05
autumn, 21

123. Mineralogy.—An elementary study of the optical properties of crystals with emphasis upon the polarizing microscope as an instrument of research. Systematic study of the important silicate minerals and their determination by all available methods. Prerequisite: Geology 122 and Physics 4.
4 units, winter quarter (ROGERS) Lec. TTh 11; Lab. TTh 1:05–4:05
winter, 24

124. Petrography.—Study of hand specimens and thin sections of the principal rock types and mineral deposits. In Courses 122 and 123 the properties or characters of minerals are considered, while Course 124 is primarily concerned with the relations between associated minerals with special reference to their occurrence and origin. Prerequisite: Geology 122 and 123.

5 units, spring quarter
(ROGERS) Lec. TTh 11; Lab. (with one period by arrangement) TTh 1:05–4:05
spring, 20

225. Advanced Mineralogy.—Advanced work in crystallography, mineralogy, or petrography for properly prepared students.

2 to 5 units, autumn, winter and spring quarters
(ROGERS) [By appointment]
winter, 3; spring, 1

PALEONTOLOGY AND STRATIGRAPHY

141. Systematic Paleontology.—History and character of fossils. Three lectures and six hours of laboratory work weekly.

4 units, autumn quarter (SMITH) MWF 10
autumn, 20

142. Historical Geology.—History and character of geologic formations. Three lectures and six hours of laboratory work weekly.

4 units, winter quarter (SMITH) MWF 10
winter, 47

143. Historical Geology.—Continuation of Course 142.

4 units, spring quarter (SMITH) MWF 10
spring, 41

144. Systematic Conchology.—Special studies in Tertiary and Recent Conchology of the West Coast. One lecture and two afternoons of laboratory work weekly.

2 units, autumn quarter (SMITH) TTh 1:05–4:05
autumn, 9

145. Tertiary Conchology of California.

2 units, winter quarter (SMITH) TTh 1:05–4:05
winter, 6

146. Paleobotany of California.

2 units, spring quarter (SMITH) TTh 1:05–4:05
spring, 2

147. General Geology of California.

2 units, autumn quarter (SMITH) TTh 10
autumn, 18

148. Detailed Stratigraphy of California.

2 units, winter quarter (SMITH) TTh 10
winter, 14

149. Stratigraphic History of the Great Basin.

2 units, spring quarter (SMITH) TTh 10
spring, 16

250. Advanced Paleontology.—This course consists entirely of private work in field and laboratory. Original investigation of various prob-

lems in paleontology, especially of invertebrate morphology, and of the distribution of faunas. Open to advanced students and graduates.
2 to 15 units, all quarters (SMITH) [By arrangement]
autumn, 15; winter, 18; spring, 20

ECONOMIC GEOLOGY

161. Non-Metals.—The occurrence, distribution, origin, and geologic methods of investigation of the non-metallic substances. Prerequisites: Geology 1, 121, 142 and 143.
4 units, winter quarter (TOLMAN) MTWTh 8
winter, 18

162. Geology of Oil and Coal.—Prerequisite: Geology 161.
2 units, spring quarter (TOLMAN) MTWTh 9
spring, 12

163. Ores.—The ore-forming processes, modes of occurrence of the various types of ore bodies, with the structures of the ores. A review of the important ore deposits of the United States and of the world. Open to students who have completed Geology 1, 121, 142, and 143.
4 units, spring quarter (TOLMAN) MTWTh 8
spring, 25

265. Seminar in the Origin and Accumulation of Oil.—(Same as Mining and Metallurgy 250.) A critical study of the literature with reference to the origin and accumulation of oil. Prerequisites: Geology 161, Mining 241–249 inclusive. Students admitted only after personal consultation with the instructor.
4 units, spring quarter (TOLMAN) [Not given in 1923–24]

266. Seminar in Ore Deposits.—The course includes: (1) Methods of polishing ore; (2) determination of ore minerals in polished surfaces; (3) study of a suite of specimens from some mine or mining district; (4) study of the important literature of ore deposits, with microscopic investigation of ores from the mining districts described therein. Three lecture and conference periods and three laboratory periods. For seniors and graduate students. Prerequisite: Geology 124.
6 units, winter quarter (TOLMAN) TTh 9–11
winter, 13

267. Special Courses.—These include: (*a*) a study of the literature of some special phase of economic geology, with a thesis; (*b*) field investigations of some mine or mineral district, or the general economic geology of an assigned area; (*c*) microscopic studies of ores collected during field studies, or microscopic investigation of suites of specimens owned by the University. Intended for graduate students, but in exceptional cases seniors are admitted.
winter and spring quarters (TOLMAN) [By arrangement]
autumn, 7; winter, 8; spring, 10

268. Mining Geology.—Special problems in mining geology.
(TOLMAN) [Given only in spring quarter 1924]
spring, 12

GERMANIC LANGUAGES

WILLIAM ALPHA COOPER, KARL GUSTAV RENDTORFF, Professors.
BRUNO BOEZINGER, Associate Professor.
HELENA MAY NYE, Instructor.
CLARA EBERHARD, HEINRICH KLÜVER, AUGUST CARL MAHR, ETHEL TAYLOR, Assistants in Instruction.

The elementary and intermediate courses listed below are designed to prepare students to read German without translation and to express ideas in simple German prose. Those who have completed Courses 101, 102 and 103 may take any more advanced course for which, in the judgment of the instructor in charge, they are prepared. Courses 176, 188, 191, 192, 193, and 200*a* are given entirely in English, the other advanced courses presupposing considerable facility in reading German, and some of them being conducted in German. Courses not assigned to any particular quarter, with "by arrangement" instead of definite hours in the time schedule, are given whenever there is sufficient demand.

Candidates for the A.B. degree in Germanic Languages are expected to take thirty units beyond second-year German, i. e., from Courses 101, 102, 103, 111 and higher.

Candidates for the Teacher's Recommendation in German as a major subject are expected to take second-year German (fifteen units) and the following: fifteen units elected from Courses 101–104, 111, and 151; two units from Courses 161, 162, and 231; fifteen units from Courses 174–178, 182–187, 200, 224; and two units from Courses 191–193. Proficiency in German will be insisted upon.

Candidates for the Teacher's Recommendation in German as a minor subject are expected to take, in addition to second-year German (fifteen units), fifteen units elected from Courses 101–104, 111, 151, 161, 162, 174–178, and 182–187. Proficiency in German will be insisted upon.

Candidates for the A.M. degree in Germanic Languages are expected to take fifteen units, including Course 251, in addition to the requirements for the A.B. degree.

Candidates for the Ph.D. degree are referred to the bulletin on Graduate Study.

The library facilities are good, and the collections are being strengthened in all directions. The private library of the late Professor Hildebrand, of the University of Leipzig, furnishes valuable material, particularly in the older literature and in lexicography. In modern literature the library offers good opportunities for advanced work, the Goethe collection being especially satisfactory. The files and the current numbers of the most important journals are at hand.

The department maintains, in Room 112, a special library of its own, including a collection of German textbooks and a model reference library for a secondary-school teacher. This collection of books is supplemented by an extensive collection of maps, wall pictures, and lantern slides suited for use in teaching.

For Courses 1, 2 and 3, First-year German, a special university fee of $7.50 per quarter is charged.

1. First-year German.—The object of this course is to put the learner in possession of the elements of the German language, which implies: (1) a personal command of simple German, that is, the ability to understand such German, whether heard or read, and to employ the language in simple conversation, narration and description, both orally and in writing; (2) a familiarity with the elements of German grammar in the degree essential for the attainment of this command of the language.
5 units, autumn quarter (EBERHARD, NYE, TAYLOR) MTWThF 8, 9, 11
autumn (5 sections), 153

2. First-year German. (Continued.)
5 units, winter quarter (EBERHARD, NYE, TAYLOR) MTWThF 8, 9, 11
winter (5 sections), 124

3. First-year German. (Continued.)
5 units, spring quarter (EBERHARD, NYE, TAYLOR) MTWThF 8, 9, 11
spring (5 sections), 105

[NOTE.—Courses 1, 2, and 3, together, are equivalent to two years of German in the high school, and may be taken by students who have presented no units of credit in German for entrance into the University. Those who present one unit for entrance may take Courses 2 and 3.]

11. Special Elementary Course.—The aim of this course is to prepare candidates for the Ph.D. degree in other departments to read the literature in German in their particular fields. A rapid review of the elements of German grammar is followed by intensive practice in reading and translation. Course 1 should precede. Permission of the instructor necessary before registration.
2 units, spring quarter (COOPER) TThF 9
spring, 5

15. German Pronunciation.—Practice in reading aloud and declaiming. Prerequisites: Courses 1 and 2.
1 unit, spring quarter (BOEZINGER) [By arrangement]
spring, 7

20a. Free Reading, Literary.—Open to students who have had a year or more of German. Thirty-six hours of reading per unit, and weekly conferences with the instructor, whose permission is necessary before registration.
1 or 2 units, each quarter (EBERHARD, KLÜVER, NYE) [By arrangement]
autumn, 34; winter, 27; spring, 37; summer, 11

20b. Free Reading, Science.—Requirements the same as for 20*a*.
1 to 3 units, each quarter (BOEZINGER, MAHR, EBERHARD) [By arrangement]
autumn, 5; winter, 7; spring, 7; summer, 8

21. Second-year German.—The aim of this course is to extend and strengthen the student's personal command of German, both oral and written. The course is taken to best advantage as a whole, but may be taken in part, either the division 21*a*, which is devoted to the reading and discussion in German of texts selected from the writings of contemporary or late nineteenth century authors, or the division 21*b*, which affords training in composition, conversation and practical grammar.

21a. Second-year Reading.
3 units, autumn quarter (COOPER, BOEZINGER) MWF 9, 10, 11
autumn, 37

21b. Second-year Composition.
2 units, autumn quarter (BOEZINGER) TTh 9
autumn, 11

22. Second-year German. (Continued.)

22a. Second-year Reading.
3 units, winter quarter (BOEZINGER, NYE) MWF 9, 11
winter, 29

22b. Second-year Composition.
2 units, winter quarter (BOEZINGER) TTh 9
winter, 9

23. Second-year German. (Continued.)

23a. Second-year Reading.
3 units, spring quarter (BOEZINGER, NYE) MWF 9, 11
spring, 17

23b. Second-year Composition.
2 units, spring quarter (BOEZINGER) TTh 9
spring, 6

[NOTE.—Second-year German, which includes Courses 21, 22, and 23, is the equivalent of the third and fourth years of German in the high school. Students who present three units in German for entrance may take Courses 22 and 23 or 23 and 24.]

24. Second-year German.

24a. Second-year Reading.
3 units, summer quarter (EBERHARD) MWF 8
summer, 4

24b. Second-year Composition.
2 units, summer quarter (EBERHARD) [By arrangement]
summer, 4

25. Science German.
3 units, autumn quarter (BOEZINGER) MWF 9
autumn, 16

26. Science German. (Continued.)
3 units, winter quarter (BOEZINGER) MWF 9
winter, 17

27. Science German. (Continued.)
3 units, spring quarter (BOEZINGER) MWF 9
spring, 4

[NOTE.—Courses 25, 26, and 27 form one continuous course, but credit may be obtained for the work of any quarter separately. Prerequisites: Courses 1, 2, and 3, or two entrance units in German. Not open to freshman students.]

28. Science German.
3 units, summer quarter (MAHR) MWF 9
summer, 7

100. Directed Reading in Science German.—Thirty-six hours of reading per unit, with weekly reports to the instructor. Prerequisites: Second-year German or Science German, three quarters.
1 to 3 units, each quarter (BOEZINGER, MAHR) [By arrangement]
autumn, 9; winter, 8; spring, 17; summer, 4

101. Novels.—A course in rapid reading of modern novels, with discussion in German of their subject-matter and technique.
3 units, autumn quarter (Cooper) MWF 11
autumn, 6

102. Classical Dramas.—A continuation of Course 101, the works read being, for the most part, dramas of the classical period.
3 units, winter quarter (Rendtorff) MWF 11
winter, 3

103. Recent Dramas.—A continuation of Course 101, the works read being, for the most part, dramas of the last fifty years.
3 units, spring quarter (Cooper) MWF 11
spring, 4

104. Dramas and Novels.—A continuation of Course 101.
3 units, summer quarter (Cooper) MWF 9
summer, 6

111. Advanced Composition.—By composition is meant, not translation from English, but the employment in connected prose of German material either gathered from reading or specially assigned by the instructor.
1 or 2 units, each quarter (Boezinger, Mahr) [By arrangement]
autumn, 2; winter, 1; spring, 2; summer, 4

150. Directed Reading.—Individual courses of reading, suited to special needs and desires. Thirty-six hours of reading per unit and brief interviews, once a week, with the instructor. Prerequisites: Second-year German for three quarters, and, if possible, one or more of Courses 101–104.
1 or 2 units, each quarter (Cooper, Rendtorff) [By arrangement]
autumn, 14; winter, 4; spring, 5; summer, 8

151. Individual Compositon.—The aim of this course is to develop correct, idiomatic and adequate expression.
1 unit, each quarter (Rendtorff) [By arrangement]
autumn, 1; winter, 1

152. Indvidual Work.—Training in lines other than directed reading, to meet special needs.
1 or 2 units, each quarter (Cooper) [By arrangement]
autumn, 1; summer, 2

161. German Etymology.
2 units (Cooper) [Not given in 1923–24]

162. German Syntax.
2 units, autumn quarter (Cooper) TTh 11
autumn, 2

171. German Lyrics.
2 units, spring quarter (Mahr) [Not given in 1923–24]

174. Goethe's Lyrics.—A study of Goethe's lyrics in relation to his life and to his conception of the poet's calling.
3 units, summer quarter (Cooper) MWF 8
summer, 6

175. Goethe's Faust.—Course conducted in German.
3 units, autumn quarter (Cooper) [Not given in 1923–24]

176. Goethe's Faust in English Translation.—An all-English course.
3 units, spring quarter (Cooper) MWF 8
spring, 6

177. Schiller's Works.
3 units, winter quarter (Rendtorff) TTh 10
winter, 3

178. Heine and the Young German Movement.
3 units, spring quarter (Rendtorff) TTh 10
spring, 1

182. History of the Nineteenth Century Literature.
3 units, autumn quarter (Rendtorff) MWF 10
autumn, 5

185. Current Literary Movements.
3 units, spring quarter (Rendtorff) MWF 10
spring, 2

186. The Development of the Drama.
3 units, summer quarter (Cooper) TTh 8
summer, 3

187. The Development of the Novel.
3 units [Not given in 1923–24]

188. General Survey of German Literature.—Lectures in English and readings from English translations.
2 units, spring quarter (Rendtorff) MW 9
spring, 2

[**191. History of Germany.**—See History 157.]
3 units, autumn quarter (Rendtorff) MWF 8
autumn, 10

192. History of German Civilization.—Lectures, with stereopticon.
2 units, winter quarter (Rendtorff) MW 2:05–4:05
winter, 6

193. Art and Literature.—The relation between formative art and literature in Germany. Lectures with stereopticon.
2 units (Rendtorff) [Not given in 1923–24]

194. German Landscapes.—Lectures in German, with stereopticon.
1 unit, summer quarter (Mahr) TTh 11
summer, 16

200a. Modern Language Teaching.—Lectures on the various methods of teaching modern foreign languages, and the psychology involved.
1 unit, summer quarter (Cooper) [Not given in 1923–24]

200b. German Teacher's Course.—Instruction and practice in progressive methods; examination of textbooks and illustrative material.
2 units (Cooper) [Not given in 1923–24]

200c. The Teaching of Literature.
1 or 2 units (Rendtorff) [Not given in 1923–24]

200d. Practice in Teaching of Elementary German.—Registration for this course should be made under the proper number in the Department of Education.
3 units, autumn, winter, and spring quarters (Cooper) [By arrangement]
autumn, 1; winter, 1

221. Gothic.
2 units [Not given in 1923–24]

223. Old High German.
2 units [Not given in 1923–24]

224. Middle High German.—Grammar and selected texts.
2 units, autumn quarter (RENDTORFF) [By arrangement]
autumn, 1; spring, 1

231. Comparative Grammar of German and English.
3 units [Not given in 1923–24]

241. Seminar.
3 units [Not given in 1923–24]

251. Master's Thesis.—The candidate reports weekly to the instructor in charge, the work extending over three quarters, as a rule.
1 to 3 units, each quarter (COOPER, RENDTORFF) [By arrangement]
autumn, 1; winter, 1; spring, 1; summer, 1

HISTORY

PAYSON JACKSON TREAT, EPHRAIM DOUGLASS ADAMS, PERCY ALVIN MARTIN, EDGAR EUGENE ROBINSON, Professors.
WILLIAM LINN WESTERMANN (Columbia University), Acting Professor (Summer Quarter).
FRANK ALFRED GOLDER, EDWARD MASLIN HULME, RALPH HASWELL LUTZ, Associate Professors.
YAMATO ICHIHASHI, REGINALD GEORGE TROTTER, Assistant Professors.
EDWARD LATIMER BEACH, Captain U. S. N., Retired, HAROLD HENRY FISHER, Lecturers.

The Department of History provides a liberal course for the A.B. degree and for graduate study leading to higher degrees; offers opportunity in certain selected fields in which the University is especially well equipped; trains teachers of history; and renders a general service to the other departments of the University.

In addition to its more specialized work the department offers a number of courses grouped as (I) Introductory and (II) Advanced Lecture Courses and intended to meet the general needs of the University constituency. The underlying principle is usefulness, not in the utilitarian sense, but in the sense of coöperation in equipping the student for his duties as a citizen by giving him instruction that may be helpful in such work as Law, Journalism, Library Research, State and National Public Service, and in business where a knowledge of domestic and foreign affairs is desirable.

For History majors the curriculum for the degree of A.B. is designed to familiarize the student with the fundamentals and methods of the chief branches of knowledge and with the methods of historical science. With this object in view a general system of advice and requirement has been outlined, open to change to suit the circumstances of the truly exceptional student. Under the four-quarter system 180 units are required for graduation. The general system of the History Department

prescribes 45 units of History, of which 3 are required in an Introductory Seminar, and 6 in one or two Seminar Courses. In addition to the requirements of the Lower Division the department requires eight units in economics or political science, with a reading knowledge of at least one foreign language by the end of the Junior year.

Advanced Degrees.—Graduate students, candidates for advanced degrees, are desired and will be given personal guidance, but the purposeless graduate student will not be accepted by the department. (For the opportunities of graduate study in History, see *Bulletin on Graduate Study.*)

Graduate students seeking to fulfill the requirements of the State Board of Education for the Teacher's Certificate are given the necessary aid and opportunities, upon registration as majors in the School of Education. (See *Bulletin of School of Education.*)

The Teacher's Recommendation in History.—Given as a major to applicants for the departmental recommendation when completing in a manner acceptable to the department, at least 42 units of History, as follows: (1) seminar courses aggregating at least 6 units; (2) introductory seminar course, 3 units; (3) the teacher's course in history (History 200), 3 units; (4) 30 units in the group of courses selected from the following fields: Medieval and Modern History (Courses 10–14 inclusive); English History (Courses 16 and 17); Far Eastern History (Courses 27–32 inclusive); American History (Courses 21–24 inclusive); Latin-American History (Courses 36 and 37). For any two of the introductory courses 10 units of Ancient History as offered by the Department of Classical Literature, may be substituted by History majors.

For the high school teacher's certificate as a minor, the departmental recommendation in History requires the completion of at least 27 units in either European or American History, as follows:

1. For the minor in European History: (*a*) 15 units in the group of introductory courses selected from the fields of European History, English History, and Far Eastern History; (*b*) 3 units in an introductory seminar course; (*c*) 6 units in a seminar course; (*d*) 3 units in the Teacher's Course in History.

2. For the minor in American History: (*a*) 15 units in the group of introductory courses selected from the field of American History and Latin-American History; (*b*) 3 units in an introductory seminar course; (*c*) 6 units in a seminar course; (*d*) 3 units in the Teacher's Course in History.

Any student securing the minor recommendation of the department in either European or American History, may thereafter earn the major recommendation by completing the 15 units of the introductory courses in the opposite group.

Students taking History as a major with the intention of preparing for journalism are referred to the heading Journalism on page 218.

I. Introductory Courses

[**Greek History.**—See under Classical Literature, Courses C1, 2, 3, 4.]

[**Roman History.**—See under Classical Literature, Course C5.]

9. The Ancient Mediterranean.—Greek Civilization. An outline of

the course of civilization in the Mediterranean lands, from the earliest period to the birth of Christ, with the Hellenic influence emphasized.
3 units, summer quarter (WESTERMANN) MWF 11
summer, 39

10. European History, 395–1300.—A general course dealing with the development of medieval life and institutions, with special attention to feudal conditions, and also to the church as the controlling force influencing every element of the life of the time. Open to all students.
3 units, autumn quarter (HULME) MWF 9
autumn, 298

11. European History, 1300–1600.—A continuation of History 10, with special emphasis upon the Renaissance and the Reformation. Open to all students.
3 units, winter quarter (HULME) MWF 9
winter, 338

12. Europe since 1600.—A survey of the political, economic, and social development of the European nationalities, with special emphasis upon the period of absolutism, industrial revolution, French revolution, growth of democracy, and nationalism and the World War. Open to all students.
3 units, spring quarter (LUTZ) MWF 9
spring, 304

13. The History of Modern France.—A general survey course of institutional, social, and political development from the foundation of Bourbon absolutism to the close of the World War. Open to all except freshman students.
2 units, winter quarter (LUTZ) TTh 11
winter, 89

14. History of Russia.—A general survey of the beginnings and earlier period of Russian history. Open to all except freshman students.
5 units, spring quarter (GOLDER) MTWThF 8
spring, 113

16. English History to 1603.—A general outline course on the making of the English state and nation to the death of Elizabeth, with emphasis upon events and institutions especially significant for the later history of the English-speaking peoples. Open to all students, though especially intended for those in the Lower Division.
5 units, winter quarter (TROTTER) MTWThF 11
winter, 171

17. England since 1603 and British Overseas Expansion.—A continuation of History 16.
4 units, spring and summer quarters (TROTTER) MTWF 11
spring, 156; summer, 65

21. American History, 1607–1789.—A survey of the English colonization of the Atlantic Seaboard and of the westward movement of colonists of the British Empire, followed by a consideration of the Revolution and of the formation of the American Government. Open to all students.
3 units, autumn quarter (ROBINSON) MWF 8
autumn, 179

22. American History, 1789–1848.—Presidential administrations from Washington to Polk; the War of 1812; industrial changes and expansion; abolition; political changes; territorial expansion. Open to all students.

3 units, winter quarter (ADAMS) MWF 10
winter, 198

23. American History, 1848–1920.—Slavery issues; the Civil War; reconstruction; industrial changes; new political parties and theories; the United States and world politics. Open to all students.

3 units, spring quarter (ADAMS) MWF 10
spring, 216

24. The Westward Movement.—A survey of the expansion of the American people into the Mississippi Valley, and of the American occupation of the Pacific Northwest and of California. Open to all except freshman students.

4 units, summer quarter (ROBINSON) MTWF 8
summer, 37

27. The Far East.—An account of the relations between western nations and the peoples of Eastern Asia, emphasis being placed upon international relations, especially since the middle of the 19th century, rather than upon the domestic history of the eastern nations. The work of the Portuguese, Dutch and British is studied and special attention is given to the rise of the British Empire in India. Open to all except freshman students.

5 units, autumn quarter (TREAT) MTWThF 9
autumn, 175

28. The Far East.—The relations of the West with China, Indo-China, Japan, and the Philippines. Open to all except freshman students.

5 units, winter and summer quarters (TREAT) MTWThF 9
winter, 154; summer, 55

31. History of Japan to 1600.—An attempt to interpret, in survey, the history of the ancient and medieval civilization of Japan. Particular attention paid to the origin of the Japanese race, early influence of the continental civilizations, the Great Reform of 645, the Taiho Code of 701, the position of Buddhism and Buddhists in Nara civilization, Japanese language, Heian or classical culture of Japan, the rise of feudalism, the feudal institutions of Kamakura, the Mongol invasions, Japan's foreign relations, the religions—Shintoism, Buddhism, and Christianity—and Hideyoshi's colossal ambitions. Open to all except freshman students.

4 units, autumn quarter (ICHIHASHI) MTWF 8
autumn, 34

32. History of Early Modern Japan, 1600–1854.—A detailed examination of feudal Japan under the Tokugawa, in order to obtain the underlying factors in Japanese life. Special attention given to the political and social structure of the country; to Tokugawa laws and legal institutions; to foreign and domestic commerce and commercial institutions; to industrial development and industrial arts, fine arts, education, philosophy, science, and literature; and to Bushido. Open to all except freshman students.

4 units, winter quarter (ICHIHASHI) MTWF 8
winter, 39

36. History of Spanish America.—An outline course dealing chiefly with the Spanish Colonial System and the Spanish-American Wars of Independence. Open to all except freshman students.
5 units, autumn quarter (MARTIN) MTWThF 9
autumn, 88

37. History of South America since 1823.—A continuation of History 36. An outline course dealing with the history and institutions of the leading nations of South America, including the discussion of such topics as the Monroe Doctrine, Pan-Americanism, and the relations between the United States and Latin America.
5 units, winter quarter (MARTIN) MTWThF 9
winter, 94

40. The Great War.—A survey of the causes, campaigns, and results of the War of 1914. Open to all students.
3 units, spring quarter (BEACH) MWF 10

II. ADVANCED LECTURE COURSES

(The courses in this group are intended for students of at least junior standing, but sophomores are admitted at the discretion of the instructor.)

[**History of Roman Civilization.**—See under Classical Literature, Course C6.]

150. The Italian Renaissance.—The development of the new humanism in its relations to the political, social and religious life of the time. The lectures deal with the sources as well as the evolution of the new and broadening thought of this critical and formulative period; with the revival of nationality and individuality, of literature, art, and science and of conscience in relation to the changing economic and social conditions; and with the development of political theory and the transformation of law.
3 units, autumn quarter (HULME) MWF 10
autumn, 32

152. The End of the Middle Ages.—A study of the rise of towns, of new nations, and of new thought, in the twelfth and thirteenth centuries, as the phenomena that prepared the way for the Renaissance.
3 units, summer quarter (HULME) MWF 10
summer, 24

153. Europe since 1815.—A course of lectures on the conflict of reaction and liberalism, the industrial revolution, the emergence of class consciousness, nationalism and imperialism, the Great War and the terms of peace.
3 units, autumn quarter (LUTZ) MWF 10
autumn, 35

154. Central Europe in the Nineteenth and Twentieth Centuries.—A survey of domestic and international developments from 1815 to 1920.
3 units, autumn and summer quarters (GOLDER) MWF 11
autumn, 8; summer, 11

155. The Peace Conference.—A study of the problems of the Peace Conference and the Treaty of Versailles.
3 units, winter quarter (GOLDER) MWF 11
winter, 11

156. History of Canada.—A survey of the evolution of the Dominion of Canada. Preliminary consideration of the periods of discovery, of early trade and settlement by French and British, and of the contest between France and Britain for empire; followed by a survey of the further development of the several colonies in their achievement of responsible government, their consolidation and expansion into a continent-wide federal dominion—their growth to autonomous nationhood as a member of the British Empire Commonwealth. Emphasis is laid upon the significance of the nearness of the United States, with consequent relations, from the standpoint of Canadian History.
4 units, spring quarter (TROTTER) MTWF 9
spring, 15

157. History of Germany.—A general survey, with particular emphasis on the period since 1848.
3 units, autumn quarter (RENDTORFF) MWF 8
autumn, 10

158. British Constitutional History.—An attempt to explain the development, the underlying principles, and the operation of the British Constitution, and also to give a background for American constitutional history. Lectures and reading. Concerning introductory seminar work in this subject, see History 180.
4 units, winter quarter (TROTTER) MTWTh 10
winter, 40

159. The Near East.—Through the Roman-Byzantine period and the period of the Turkish Conquest, down to the present time.
3 units, summer quarter (WESTERMANN) MWF 9
summer, 20

161. History of the Far West.—The growth and development of the trans-Mississippi region, with particular emphasis on the history of California.
4 units, winter quarter (ROBINSON) [Not given in 1923–24]

162. History of the West.—A consideration of the political phases of the expansion of the American people, and an examination of new issues and new groups that have risen in the West, with their influence upon national party history.
2 units, winter quarter (ROBINSON) TTh 8
winter, 42

164. British-American Diplomatic Relations.—Lectures and reading on those incidents or conditions in foreign policy where the United States has come into conflict or contact with the foreign policy of Great Britain and her colonies, with a survey of the general purpose of British and of American foreign policy throughout the hundred-year period.
3 units, autumn quarter (ADAMS) MWF 11
autumn, 13

166. History of Australasia.—An account of British colonization in Australia and New Zealand up to the present time. Open to third-year students who have a satisfactory knowledge of English history.
3 units, spring quarter (TREAT) [Not given in 1923–24]

167. Tropical Colonization in the Far East.—A study of the present methods of the English, Dutch, French, and the American governments in their tropical dependencies in the Far East. Open to students who have taken Course 27.
3 units, spring quarter (TREAT) MWF 9
spring, 22

168. Modern Japan since 1854.—A critical study of political and economic Japan since 1854, in order to determine the causes that enabled the nation to attain her present position in the world of politics and economics. Special attention is paid the struggle between feudalism or bureaucracy and liberalism or democracy—to the political movements since the reopening of Japan to western intercourse and to the promulgation of a constitution in 1889.
3 units, spring quarter (ICHIHASHI) MWF 10
spring, 24

170. History of Mexico and California.—A somewhat detailed study of the history of Mexico up to the present time and of the history of California to 1848.
3 units, spring quarter (MARTIN) MWF 11
spring, 51

172. American Naval History.—A lecture course presenting an account of the development of the American navy, its activities, and its historical influence.
3 units, winter quarter (BEACH) MWF 11
winter, 83

174. American Military History.—A lecture course outlining the organization, development, and activities of the United States Army.
3 units, autumn quarter (BEACH) MWF 11
autumn, 92

175. The American Constitution and American Ideals.—A special course for those wishing to fulfil the requirement for the Teacher's Certificate. Open to others by permission.
3 units, summer quarter (ROBINSON) TTh 2
summer, 80

176. Historiography.—Designed to familiarize the student with the writings and influence of the great historians, from Herodotus to the present time, the work consisting of lectures, papers, and class discussions. Open to graduate students and to others at the discretion of the instructor.
3 units, spring quarter (MARTIN) Th 2–4
spring, 8

[**Law 215: International Law.**—A course given by the Law Department, and strongly advised for History majors interested in world politics and relations. Accepted for credit in fulfilling the History requirements for the A.B. degree, and open at the discretion of the instructor, to majors in the third or fourth year of departments other than that of the Law.
4 units, winter quarter (BINGHAM)]

[**Law 225: Constitutional Law I.**—Accepted for credit in fulfilling the History requirements for the A.B. degree.
3 units, autumn quarter (CATHCART)]

[**Law 226: Constitutional Law II.**—Accepted for credit in fulfilling the History requirements for the A.B. degree.
3 units, winter quarter (CATHCART)]

III. INTRODUCTORY SEMINAR COURSES

(The courses in this group are intended primarily as preparation for senior seminars, or graduate work, for History majors in their junior year; but if a course is not filled by History majors, others may be admitted at the discretion of the instructor.)

177. Historical Method.—A course preparatory to historical research and to the teaching of History; what it is, what it is for, its materials, its methods, its relation to neighbor studies; how to read it, study it, and write it. The course also provides for introductory studies of some of the sciences auxiliary to History.
3 units, autumn and summer quarters (HULME) TTh 10
autumn, 36; summer, 19

178. Nineteenth Century European Problems.—Papers and class discussions on important domestic and foreign problems of European nations. Open to History majors with two years' credit.
3 units, autumn quarter (GOLDER) MWF 9
autumn, 2

180. Selected Topics in British Constitutional History.—Specialized study of selected topics dealt with in more summary fashion in History 58, to which it is supplementary. Open to any History majors taking History 158; to other students only at the discretion of the instructor.
2 units, winter quarter (TROTTER) F 10
winter, 6

184. The World War.—A general survey of the period of the war and the armistice, with assignment of special topics for study from materials in the Hoover War Library.
3 units, winter quarter (LUTZ) T 2–4

186. Relations between California and the Federal Government.—An examination of materials revealing the problems of California and their relation to national development.
3 units (ROBINSON) [Not given in 1923–24]

188. American Diplomatic Relations.—Not a general survey of the field, but a specialized study of selected topics, with use of the available documentary material. Intended primarily for History majors, but open to junior students familiar with the elements of American and European History.
3 units, autumn quarter (ADAMS) W 2–4
autumn, 12

190. Selected Topics in Far Eastern History.—Designed to introduce the student to materials in western languages useful in the study of the modern history of the Far East. Open to those who have had History 28.
3 units, spring quarter (TREAT) MWF 11
spring, 12

196. History of Brazil.—A somewhat detailed study, with special emphasis on the period since 1822, and including a comparison of Brazilian political institutions with those of Spanish America and the United States. Open to those who have had History 37 and to others with permission of the instructor.
3 units, autumn quarter (MARTIN) MWF 11
autumn, 4

197. Selected Topics in Japanese Political History.—Papers, reports, and discussion in class, with examination of English materials useful to a correct understanding of Japanese institutions.
3 units, spring quarter (ICHIHASHI) W 2–4
spring, 10

198. Special Studies in American Naval History.—For the purpose of acquainting students with the source materials of the subject.
3 units, spring quarter (BEACH) MWF 9
spring, 17

IV. SEMINAR COURSES

(The subjects in this group are intended primarily for History majors of senior or graduate standing.)

200. The Teaching of History.—For those students who expect to teach history in intermediate or secondary schools, the purpose being to make the student acquainted with the aims, the methods, the apparatus, and the literature of the work of teaching history.
3 units, winter and summer quarters (HULME) MWF 11
winter, 28; summer, 24

205. Seminar in Medieval History.—Subject for 1923–24: Francis of Assisi and His Early Followers.
3 units, winter quarter (HULME) Th 2–4
winter, 16; summer, 1

207. Seminar in Modern European History.—Subject for 1923–24 selected from the period since the beginning of the World War in 1914.
3 units, autumn and spring quarters (LUTZ) T 2–4
autumn, 15; winter, 17; spring, 13

209. Seminar in the History of the Near East since 1876.
3 units, summer quarter (WESTERMANN) Th 2–4
summer, 3

210. Seminar in the History of England and the British Empire.—Topics for 1923–24 deal with the history of selected diplomatic questions involving relations between Canada and the United States.
3 units, summer quarter (TROTTER) Th 2–4
summer, 3

213. Seminar in the History of the West.—A study of materials relating to the political phases of westward expansion.
3 units, autumn, winter, and summer quarters (ROBINSON) M 2–4
autumn, 11; winter, 14; summer, 12

219. Seminar in American Diplomatic History.—Topics for 1923–24 selected from the period since 1865.
3 units, winter and spring quarters (ADAMS) W 2–4
winter, 8; spring, 8

222. Seminar in American-European Relations.—Limited to candidates for advanced degrees.
Units various, any quarter except autumn (Adams) [By arrangement]

225. Seminar in the History of the Far East.—Each year some phase or period of the relations of the United States with the Far East is studied, each student preparing a thesis on some special topic of investigation.
3 units, autumn, winter, and summer quarters (Treat) T 2–4
autumn, 10; winter, 10; summer, 3

226. Seminar in Russian History.—Topics to be selected from episodes of recent developments.
3 units, winter, spring, and summer quarters (Golder) F 2–4
winter, 4; spring, 3; summer, 3

228. Seminar in Japanese History.—Individual investigation under advice and direction of the instructor.
3 units, autumn and winter quarters (Ichihashi) Th 2–4
autumn, 5; winter, 3

231. Seminar in Latin-American History.—Subject for 1923–24: Diplomatic Relations between the United States and Latin America.
3 units, winter and spring quarters (Martin) M 2–4
winter, 10; spring, 10

240. Graduate Work.—Students properly qualified under the University regulations to pursue genuine graduate studies, are given special attention, with due credit allotted for the work accomplished. Such students receive individual advice and guidance, whether in set courses or in special research.
Units, not to exceed a total of 15 [Hours by arrangement]
autumn, 6 (3 groups); winter, 3; spring, 3 (2 groups); summer, 14 (3 groups)

HOPKINS MARINE STATION

Walter Kenrick Fisher, Director.
Harold Heath, Professor.
James Percy Baumberger, Lawrence Becking, Assistant Professors.
Ernest Herman Brunquist, Acting Instructor.
John Sterling Kingsley, Charles A. Kofoid, Lecturers.
Emily Mary Bartlett, Laurence Irving, Harrington Wells, Assistants.

The Station is situated at Pacific Grove, on the south side of Monterey Bay, California. The ground area comprises seven and a half acres consisting of the main portion of Cabrillo Point, with complete control of the coast line of the Point and including an excellent sheltered landing place and harbor for boats of considerable size.

The present building, erected in 1917, is of reinforced concrete construction, approximately 40 x 83 feet, and three stories in height.

The first floor provides a physiological laboratory containing a large floor aquarium; a concrete-floored room for the storage of boats, collect-

ing apparatus, etc.; a large storeroom, men's lavatory, furnace room, photographic darkroom, and janitor's rooms.

The second floor, into which the main entrance opens, is devoted to three large general laboratories, and two private laboratories for instructors.

The third floor contains an advanced laboratory and six private laboratories, thus affording a total of eight of the latter and five others available for classes. In addition to these rooms, there is a large library, with a generous fireplace, an apparatus room, and a rest room for women; also a stairway giving access to the flat, parapeted roof where open-air aquaria may be set up as needed.

Fresh and salt water is provided in each laboratory, the sea water being pumped to a concrete tank upon the roof, whence it is distributed to the various aquarium tables.

Heating is provided by a hot-air system, and electric lights and gas are installed.

The Station fulfills a twofold purpose: first, in providing for research in biology; secondly, in furnishing, under exceptionally natural advantages, elementary and advanced instruction in biology.

Investigators and special students can be accommodated at any time, the Station being open the entire year, but regular classes are scheduled for the Spring and Summer Quarters only.

Admission and Fee

The use of the Station facilities is tendered free of charge to investigators prepared to carry on research.

A General Fee of *seventy-five dollars* per quarter is payable by all undergraduate students taking regular courses or pursuing special work, and a similar fee of *fifty dollars* is payable by all graduate students.

Application and Payments in Advance

Owing to limited laboratory space, and in order to avoid confusion, it will be necessary for all prospective students to make application (preferably on a special form) to the Director in advance, stating courses in which registration is desired, with possible alternative courses. On notification, or as soon as possible after June 1st, students are required to deposit with the Director, for reservation of laboratory space, ten dollars of the General Fee. The balance is payable on Registration Day, at the Station.

Late registration is permitted only with the approval of the Director and of the instructors concerned.

Courses 1, 3, 9, 13 are open to Lower Division students without previous training in biology. Courses 100 and 102 are open to Lower Division students having had a laboratory course in General Zoology.

Courses Scheduled for Summer Quarter, 1924

1. General Zoology.—Designed to give a general view of the animal kingdom—the types of animals, general life processes, life histories, structure, development, and classification. Excursions made to various points along the shore to enable students to collect and observe living animals. Limited to fourteen students.

5 units (Heath) MTWThF 8–10
summer, 3

3. Natural History.—A study of land animals and plants, in the field, with special reference to ecology. No prerequisite.
1 units (FISHER) Saturday
summer, 5

9. Elementary Physiology of Marine Organisms.—In this course, under guidance of an instructor, each student undertakes to solve by his own efforts one or more simple problems in the physiology of marine organisms, either plant or animal, the problems assigned not requiring an extensive background of knowledge, although elementary chemistry and elementary biology will be found helpful. Frequent informal conferences are held at which individual students report their findings to the entire class, and members of the instructing staff discuss the reports with the class in such a way as to emphasize the physiological principles involved, an effort being made to distribute the problems over a wide enough field so that the reports and discussions furnish a general survey of physiology.

A partial list of general headings under which assigned problems fall, is as follows:

Photosynthesis in marine plants; environmental conditions suitable to marine plant life; responses of marine plants to stimulation; motion in sea anemones, in starfish, in molluscs, in crustacea, in fish; responses of marine animals to stimulation (tropisms); environmental conditions suitable to marine animal life; digestion and circulation in marine organisms; respiratory interchanges in marine forms.

Concurrent registration in General Zoology is required of all students who are without some biological training. Textbook: General Biology, Burlingame, Heath, Martin, Peirce. Limited to twelve students.
5 units (BAUMBERGER, BECKING, BRUNQUIST, IRVING) Three afternoons weekly
summer, 7

13. Algæ.—A general course, including lectures, laboratory, and field work. Limited to twelve students.
5 units (BECKING, BARTLETT) [Hours by arrangement]
summer, 3

100. Marine Invertebrates.—The object of this course is to give the student the widest possible acquaintance with the animals which live along shore and in the plankton of Monterey Bay, the student collecting much of his own material in the field, and studying more intensively some one group in which he is interested. The prescribed work also includes a study of the associations of animals, their distribution, and something of their behavior or simple reactions. Limited to twelve students.
5 units (FISHER) MTWThF 8–10
summer, 13

102. Comparative Embryology.—A study of development in as varied a series of marine forms as possible, and supplemented by the consideration of the fundamental facts of vertebrate development. Limited to twelve students.
5 units (HEATH) MTWThF 10–12
summer, 20

104. Comparative Anatomy of the Vertebrates.—A comparative study of the morphology of the several classes of vertebrates.
5 units, summer quarter (HEATH, WELLS) [By arrangement]
summer, 6

105. Mammalian Anatomy.—Detailed dissection of a mammal.
3 to 5 units, summer quarter (HEATH, WELLS) [By arrangement]
summer, 1

109. Advanced Physiology of Marine Organisms.—The general method followed in this course is the same as in Course 9, the problems assigned being of a more advanced character and involving the use of standard methods of chemical and physiological research.

The aim of the course is to introduce students to the physiological problems presented by marine organisms and to familiarize them with the technique by which such problems may be attacked. Frequent informal conferences are held at which the data secured by individual students is discussed by the class and by the instructing staff.

To indicate the general character of the work a few representative problems are given here: coagulation of crustacean blood; oxygen dissociation curve of hemocyanin; buffer action and carbon dioxid-carrying power of crabs' blood; influence of hydrogen-ion concentration on ciliary activity; turgescence in medusæ; gas content of swim-bladders of fishes; salt equilibria in brine-inhabiting organisms.

Only students with adequate training in biology, chemistry, or physics are enrolled, those capable of carrying on research work under guidance being allowed the widest range practicable in the selection of problems.
5 units (BAUMBERGER, BECKING, BRUNQUIST, IRVING) Three afternoons weekly
summer, 3

110. Reading in Bionomics.—Supervised reading in evolution, genetics, or along other special lines, for advanced students prepared to undertake the work.
1 or 2 units (FISHER) [Hours by arrangement]
summer, 5

201. Zoology Research.—The original investigation of problems connected with the anatomy, taxonomy, and natural history of invertebrates.
(FISHER) [Hours and credit by arrangement]
summer, 6

Courses 1, 9, and 102 will count toward the requirement in biology for those desiring to register in medicine. Courses 1 and 100 are major requirements in the Department of Zoology.

LAW

JOSEPH WALTER BINGHAM, ARTHUR MARTIN CATHCART, MARION RICE KIRKWOOD, GEORGE EDWARD OSBORNE, WILLIAM BROWNLEE OWENS, CHESTER GARFIELD VERNIER, CLARKE BUTLER WHITTIER, Professors.

EDWIN DEWITT DICKINSON (University of Michigan), MERTON LEROY FERSON (University of Missouri), EVERETT FRASER (University of Minnesota), ROLLIN MORRIS PERKINS (University of Iowa), Professors (Summer Quarter, 1924).

HAROLD SHEPHERD, Associate Professor.

OSCAR KENNEDY CUSHING, HENRY GRANVILLE HILL, LEONARD SAXTON LYON, Lecturers.

THE LAW SCHOOL

The Law School was established as a department of the University, in 1893, its purpose being to provide a thorough legal education for students who are fitted by their maturity and their previous academic training to pursue professional study under university methods of instruction. The curriculum covers three academic years and constitutes an adequate preparation for the practice of law in any English-speaking jurisdiction.

In Common Law Pleading, Code Pleading, Practice, Water Rights, and Mining Law elective courses are offered, in all of them special attention being paid to problems of local law in the western states.

In Public Law the comprehensive group of courses is of particular value not only to the law student but to the student who contemplates entering the diplomatic, consular, or other government service.

By taking advantage of the four-quarter system, with its opportunities for summer instruction, the Law curriculum may be completed in two and one-fourth calendar years, provided the student has completed three years of academic work at the time of admission.

Only college graduates and students who have completed two years of work in this University, or its equivalent elsewhere, are admitted as regular students. In the discretion of the Faculty, those who cannot meet these requirements but who are eligible for admission to the University as regular students, are admitted to the Law School, if not under twenty-three years of age, but only as unclassified students, not candidates for a degree.

The Library

The Law Library contains over 30,000 volumes, including complete sets of the English, Irish, Scotch, Australian, and Canadian reports; the reports of all Federal courts; a practically complete set of the reports of the American States, the Australian States, and the Canadian Provinces; the National Reporter system; the standard collections of cases; the standard English and American legal encyclopedias; the principal American, English, and Canadian digests and citators; sets of the leading American, British, Canadian, and Continental legal periodicals, together with a good collection of textbooks; and also a somewhat complete collection of compiled laws, session laws, and other statutory material, both Federal and State as well as British, Canadian, and Australian.

Upon graduation the Class of 1911 adopted a plan for the purchase, from time to time, of works on Legal History. This collection is known as the "Class of 1911 Memorial Collection on Legal History." The Class of 1912 adopted a similar plan for the purchase of a memorial collection of celebrated trials.

Through the efforts of the Stanford Law Association a fund was established in 1923 in memory of Charles Andrews Huston, who was for many years professor of law and dean of this school, the income from this fund to be used for the purchase of books for the Law Library.

Through the generosity of Justice McFarland, Justice Melvin, Justice W. A. Sloane, and Justice Frank H. Kerrigan, the Library has received, since 1907, a complete set of the records of the California

Supreme Court; and through the generosity of Justice Sloss, Justice Warren Olney, Jr., Justice C. A. Shurtleff, and Justice Frank H. Kerrigan, a complete set of the records of the District Courts of Appeal.

The University libraries are also available for use by students of the Law School.

Admission to the Law School

Admission to the professional curriculum in law is granted to students duly enrolled in the University, as follows:

1. To students who have received the degree of Bachelor of Arts, or an equivalent degree, from this University or some other institution of recognized collegiate rank.

2. To students who have received credit for two years of work (90 units) offered by this University, including the work of the Lower Division, or the substantial equivalent of these two years in some other institution of recognized collegiate rank, such work having been completed with acceptable grades.

(After November 1, 1924, admission will be granted only to those who have received the degree of Bachelor of Arts or its equivalent from this University or from some other institution of recognized collegiate standing; provided, however, that students who have matriculated in the University prior to November 1924 will be admitted upon fulfilling the requirements in force May 1, 1924.)

3. To students who, although unable to meet the foregoing requirements, are nevertheless eligible for admission to the University as regular students; such applicants, in the discretion of the Faculty, to be termed unclassified, to be ineligible for a degree, and to be twenty-three years of age.

The Degree of Bachelor of Arts

Students registered in the Law School are recommended by the Law Faculty for the degree of Bachelor of Arts in the pre-legal curriculum upon the completion of the number of units and grade points required by the University for graduation with the Bachelor's degree, provided that these units shall include: (*a*) the work of the Lower Division or its substantial equivalent in some other institution; (*b*) studies under the guidance of the Law Faculty covering ninety units. These studies must include the first-year professional law courses. Additional professional law courses not to exceed twenty-six units may be chosen. All the other courses are elective, subject to the approval of the Faculty of Law, and as a general rule should be mainly selected from the departments of Economics, English, History, Law, Philosophy, and Political Science. Special attention is directed to the course in Roman Law offered in the department of Classical Literature.

It will be noted that under this arrangement a student who wishes to pursue more than three years of law studies while in the University may county sixty-five units, substantially one and a half years of professional work, toward his A.B. degree.

Students who are recommended by the Faculty of the Law School for the degree of Bachelor of Arts in the pre-legal curriculum may satisfy the requirements for the degree of Juris Doctor by two additional years of professional law study.

Recommendation for the degree is not given to a student who has not spent at least one academic year in residence at this University and received during that time forty-five units of credit, of which at least thirty-nine must be in professional law courses.

The Degree of Juris Doctor

This degree (J.D.) is granted to students who have received the degree of Bachelor of Arts, or its equivalent, from this University or from some other institution of recognized collegiate rank; have satisfactorily completed courses in law aggregating 115 units; have devoted nine full quarters of time to the study of law; and have otherwise satisfied the requirements of the University and the Law School.

Non-Professional Courses

(Credit in non-professional courses may be counted toward the A.B., but not toward the J.D., degree.)

1. Introduction to the Study of Law.—Nature, sources, and sanction of law; outline of the historical development of English and American courts and procedure; the content, classification, and determination of rules of law, including a consideration of legal rights and duties, the doctrine of *stare decisis* and the development of some of the more elementary rules of law by combining and comparing decisions. Assigned readings and cases. Prerequisite: 55 units of academic credit.

4 units, spring quarter (Kirkwood)
spring, 128

100. Business Law I.—Contracts: their formation, operation, and discharge. Principal and agent: nature of the relation; power of the agent to bind the principal in contract and tort. This course may not be taken by law students but is open to all other students who have 80 units of credit. The class is limited to one hundred. Bays, Cases on Commercial Law.

3 units, autumn quarter (Owens)

101. Business Law II.—Sales of goods; the transfer of title; warranties; remedies of buyer and seller on breach of contract or warranty. Negotiable instruments: formal requisites; rights and liabilities arising from negotiation; procedure to fix liability. Prerequisite: Business Law I.

3 units, autumn quarter (Owens)
autumn, 95

Professional Courses

FIRST YEAR

(Completion of all first-year courses is required for recommendation for the A.B. degree.)

102. Contracts I.—Mutual assent, including offer and acceptance; contracts under seal; statute of frauds; illegality; joint and several contracts. Williston, Cases on Contracts (2d ed.) and selected cases.

5 units, autumn quarter (Shepherd)
autumn, 135

102a. Contracts A.—Mutual assent, including offer and acceptance; consideration. Williston, Cases on Contracts (2d ed.).
4 units, summer quarter (first half) (FERSON) Eight recitations weekly
summer, 18

103. Contracts II.—Consideration; beneficiaries; assignments. Williston, Cases on Contracts (2d ed.) and selected cases. Prerequisite: Contracts I.
3 units, winter quarter (SHEPHERD)
winter, 119

103a–4a. Contracts B.—Beneficiaries; assignments; express conditions; defenses arising from breach of implied conditions; prevention; excuses for non-performance of conditions; anticipatory breach; impossibility; discharge of contracts. Williston, Cases on Contracts (2d ed.). Prerequisite: Contracts A.
4 units, summer quarter (second half) (FERSON) Eight recitations weekly
summer, 15

104. Contracts III.—Express conditions; defenses arising from breach of implied conditions, prevention, incapacitation and repudiation; excuses for non-performance of conditions; anticipatory breach; impossibility; discharge of contracts. Williston, Cases on Contracts (2d ed.) and selected cases. Prerequisites: Contracts I and II.
3 units, spring quarter (SHEPHERD)
spring, 105

105. Torts I.—Principles of tort liability as developed in the action of trespass; negligence as a basis of liability; common law and statutory duties of care; legal cause; contributory negligence. Ames and Smith, Cases on Torts (Pound's ed.) and selected cases.
4 units, autumn quarter (CATHCART)
autumn, 135

106. Torts II.—Justification and excuse; absolute liability; deceit; defamation; malicious prosecution and abuse of process; interference with social and business relations, unfair competition, combinations, strikes, boycotts. Prerequisite: Torts I, except with the permission of the instructor. Ames and Smith, Cases on Torts (Pound's ed.) and selected cases.
4 units, winter quarter (CATHCART)
winter, 114

107. Criminal Law.—Nature and sources of criminal law; crime as an act; attempts; criminal intent; circumstances affecting illegality of act; specific offenses; crimes against the person, larceny and allied offenses; crimes against the dwelling house, conspiracy. Mikell, Cases on Criminal Law.
6 units, spring quarter (VERNIER)
spring, 100

108. Personal Property.—Possession: nature, importance, and legal effect; possessory interests arising from tenancy bailment, lawful seizure; rights of a finder; possession without right. Certain methods of acquiring title to chattels; statutes of limitations; gifts *inter vivos;* accession; confusion, etc. Liens and pledges. Conversion. Warren, Cases on Property.
4 units (respectively), autumn and summer quarters
autumn (OSBORNE); summer (FRASER)
autumn, 109; summer, 18

109. Introduction to the Law of Real Property.—Tenure; estates in land with reference to: quantity, absolute and qualified character, the time of enjoyment, number and connection of owners, creation and transfer, uses, marital interests. Case book to be announced.
3 units, winter quarter (KIRKWOOD)
winter, 129

110. Agency I.—Nature of relation; appointment; liabilities of principal for agent's torts, contracts, crimes. Prerequisites: Contracts I and Torts I. Wambaugh, Cases on Agency.
3 units, winter quarter (SHEPHERD)
winter, 97

111. Agency II.—Liability of agent; parties to writings; undisclosed principal; principal's duties to the agent, including workmen's compensation legislation; agent's duties; delegation; termination; ratification. Prerequisites: Contracts I and II, Torts I and Agency I. Wambaugh, Cases on Agency and selected cases.
4 units, spring quarter (SHEPHERD)
spring, 86

SECOND AND THIRD YEAR COURSES

(Courses numbered 201 to 224, inclusive, while intended primarily for graduates, may be elected by students who have completed a substantial part of the first-year program, including Contracts I, II, III and Torts I, II, and who desire to count more than forty units of law toward the A.B. degree. [See specific courses for additional prerequisites.] For general requirements for admission to Courses 225 to 249 and 250 and above, see statements at the beginning of these groups.)

201. Common Law Pleading.—This course is intended (*a*) to provide a sufficient training in pleading for practice in a common law jurisdiction; (*b*) to furnish an adequate foundation for the study of code pleading; (*c*) to assist the student in the intelligent study of cases. It includes a study of forms of action, necessary allegations, methods of pleading defenses, defects in pleadings with methods of objecting to them and their cure, dilatory objections, cross demands. Prerequisites: Two quarters of Contracts, Torts, Personal Property, and Introduction to Real Property. Whittier and Morgan, Cases on Common Law Pleading.
4 units, spring quarter
(WHITTIER) [To be given in 1924–25]

202. Equity.—Development and nature of equity jurisdiction, specific reparation and prevention of torts, specific performance of contracts. Ames, Cases on Equity Jurisdiction, Vol. I; Pound's Cases on Equitable Relief Against Defamation and Injuries to Personality.
6 units, autumn quarter (KIRKWOOD)
autumn, 66

203. Persons and Domestic Relations.—Infants; period of infancy; infants' contracts and conveyances, torts and crimes. Husband and wife; rights of husband as to wife's property; rights of each as to earnings, services and society of the other; husband's interest in damages for tort to wife; husband's liability for torts or contracts of wife; husband's duty to support wife and wife's authority to bind husband by her con-

tracts; married women's contracts, conveyances, and devises; estoppel of married women; liability of married women for torts and responsibility for crimes; contracts, conveyances, and suits between husband and wife; husband's right to custody of wife. Marriage: promise to marry and breach; marriage as a contract or relation; annulment; divorce; separation. Woodruff, Cases on Domestic Relations (3d ed.).
4 units, summer quarter (first half) (VERNIER) Eight recitations weekly
summer, 37

204. Sales.—Subject-matter of the contract; transfer of property and title; destruction of the goods and risk of loss; obligations of seller and buyer; rights of unpaid seller against the goods, remedies of the seller on the contract; remedies of the buyer on the contract; Statute of Frauds. Woodward, Cases on Sales.
6 units, autumn quarter (VERNIER)
autumn, 32

205. Landlord and Tenant.—Creation of relationship: duration of tenant's interest; remedies of landlord for non-performance of tenant's obligations; remedies of tenant against landlord; covenants running with the land as between landlord and tenant; rights and duties of landlord and tenant with respect to third persons. Prerequisite: Law 109, Introduction to Real Property. Selected cases.
3 units, winter quarter (KIRKWOOD)
winter, 27

206. Water Rights.—An intensive study of water rights in the Western States. Extent of riparian rights and liberties; the law of prior appropriation; relative priorities of riparian and non-riparian rights and liberties of use; extinguishment of riparian rights; rights in diffused and underground waters; rights in interstate streams; federal and state powers of control. Prerequisites: Law 109, Introduction to Real Property; Law 202, Equity. Bingham's Cases on Water Rights.
4 units, autumn quarter (BINGHAM)
autumn, 31

207. Mining Law.—A course on mining titles under the federal mining acts, with especial reference to mining rights in the Western States and Alaska. Prerequisites: Law 109, Introduction to Real Property; Law 202, Equity. Costigan, Cases on Mining Law.
4 units, summer quarter (first half) (BINGHAM) Eight recitations weekly
summer, 12

208. Bailments and Carriers.—Bailments in general, including bailments for hire, for services to be performed and for hired use. Special classes of bailments involving ordinary liability, pledges, warehousemen. Special classes of bailments involving exceptional liability; innkeepers; common carriers of goods; common carriers of passengers. Green, Cases on Carriers.
3 units, winter quarter (HOLLAND)
winter, 27

209. Public Utilities.—The nature, rights and duties of public service callings and businesses under the common law: railroads and canals; telephone and telegraph; gas, water, irrigation and other public utilities. The legislative and administrative regulation of public utilities under the

police power, especially rate regulation. The Interstate Commerce Act: scope of commerce regulated by the act; duties of carriers under the act. Burdick, Cases on Public Service and selected cases.
4 units, spring quarter (CATHCART)
spring, 15

210. Trade Regulation.—Contracts and combinations in restraint of trade. Contracts accompanying the sale of a business or of property; exclusive contracts of sale and purchase; contracts of buyers to keep up prices on resale. Disparagement of goods and unfair competition. Combinations and competitive methods of labor units; of trade or manufacturing units; and of public service units. Modern statutes regulating trade, especially the Sherman Anti-Trust Act, the Federal Trade Commission Act, and the Clayton Act. No law credit if taken before Contracts and Torts. Oliphant, Cases on Trade Regulation.
4 units, spring quarter
(CATHCART) [To be given in 1924–25 and in alternate years thereafter]

211. Damages.—Respective functions of court and jury in estimating damages; exemplary, liquidated, nominal, direct, and consequential damages; avoidable consequences; counsel fees; certainty, compensation, damages for non-pecuniary injuries; value; interest; and damages in certain actions of tort and contract. Beale, Cases on Damages (2d ed.).
3 units
(SHEPHERD) [Not given in 1923–24]

212. Quasi-Contracts.—Origin and nature of quasi-contracts. Benefits conferred in misreliance on right or duty; general principles; misreliance resulting from mistake of law; misreliance on invalid contract, on contract unenforceable because of Statute of Frauds, on illegal contract, on contract impossible of performance, on contract unenforceable because of breach, on supposed requirement of valid contract, on non-contract obligation, on ownership of property. Benefits conferred through dutiful intervention in another's affairs and under constraint; constraint of duress, of legal proceedings, of tax or assessment. Action for restitution as alternative remedy for breach of contract and for tort. Thurston, Cases on Quasi-Contracts.
4 units, autumn quarter (OSBORNE)
autumn, 32

213. Insurance.—Marine, fire, and life insurance. Insurable interest in various kinds of policies; concealments; misrepresentations; warranties and other matters affecting the validity of the contract; amount of recovery; subrogation; waiver, estoppel, election; powers of agents; assignees and beneficiaries.
3 units, spring quarter (HOLLAND)
spring, 26

214. Wills.—Devolution of property of a decedent by intestate succession. The nature of wills and testaments; probate and its effect; testamentary capacity; testamentary intent; effect of fraud, undue influence, or mistake on the validity of a will; formalities essential to execution of a valid will. Incorporation by reference. Nullification of wills by (1) revocation; (2) ademption or lapse of legacies or devises; (3)

by other circumstances. Republication of wills. Prerequisites: Law 109, Introduction to Property; Law 202, Equity. Gray's Cases on Property, Vol. IV (2d ed.) and selected cases.
4 units, winter quarter (BINGHAM)
winter, 44

215. Admiralty.—Those principles and rules peculiar to admiralty and maritime law, with particular reference to the United States, involving the application of rules of law to transactions upon the sea and navigable waters and including (1) the extent and nature of the jurisdiction of federal and state courts in applying such rules; (2) the nature of the substantive maritime law of the United States; (3) the maritime lien or right *in rem,* its nature and when it exists; (4) the substantive law of salvage, general average, and with regard to the rights of seamen; (5) the right under federal statutes of a shipowner to limit his liability to the value of his ship, or by contract to avoid liability for the loss or injury of goods carried by sea; and (6) the admiralty rule for the division of damages in cases of mutual fault. Selected cases.
4 units, summer quarter (second half) (DICKINSON) Eight recitations weekly
summer, 22

216. Public International Law.—Nature of international law; relation to municipal law. International relations in time of peace: definition, recognition, and classification of states; jurisdiction on land and on the high seas; acquisition and transfer of jurisdiction; non-belligerent settlement of international controversies. International relations as modified by war; effect of war as between enemies; relations between belligerents and neutrals. Open to students in other departments on petition. Scott's Cases on International Law.
4 units (BINGHAM) [To be given in 1924–25 and alternate years thereafter]

(Courses numbered 225 to 240, inclusive, may be taken by undergraduate students only in exceptional instances and upon petition in each case.)

225. Constitutional Law I.—Introductory topics: nature of written constitutions and function of the judiciary in enforcing them; separation and delegation of powers; federal government, the nation and the states; the District of Columbia, the territories, the insular possessions and kindred topics. The thirteenth amendment: slavery and involuntary servitude. The fourteenth amendment: privileges and immunities of citizens; due process and equal protection of law; procedure; police power; taxation. The fifteenth and eighteenth amendments. No law credit if taken before Contracts and Torts. Wambaugh, Cases on Constitutional Law and selected cases.
3 units, winter quarter (CATHCART)
winter, 35

226. Constitutional Law II.—The contract clause; ex post-facto laws; the first ten amendments; express provisions on state and national taxation; money; the commerce clause and kindred topics. No law credit if taken before Contracts and Torts. Wambaugh, Cases on Constitutional Law and selected cases.
3 units, spring quarter (CATHCART)
spring, 32

227. Administrative Law and Public Officers.—Administrative regulations; jurisdiction, discretion, adjudication; enforcement of orders; *habeas corpus; mandamus; certiorari;* equitable jurisdiction in public law. Freund, Cases on Administrative Law.
3 units, autumn quarter (HOLLAND)
autumn, 17

228. Bankruptcy.—Jurisdiction of the United States and the several States; who may be a bankrupt; who may be petitioning creditors; acts of bankruptcy; what property passes to the trustee; provable claims; duties and powers of the bankrupt and his trustee; protection, exemptions and discharge. Williston, Cases on Bankruptcy.
4 units, summer quarter (first half) (OSBORNE) Eight recitations weekly
summer, 25

229. Special Equitable Remedies.—Bills of interpleader; bills of peace; bills *quia timet;* cancellation of contracts, removal of clouds on title; perpetuation of testimony, bills to secure rights of future enjoyment; bills of account. Ames, Cases on Equity Jurisdiction, Vols. I and II.
2 units, spring quarter (KIRKWOOD)
spring, 12

230. Title to Land.—I. Original titles founded on possession, prescription, and accretion. II. Modern conveyancing: execution of deeds, description of the property conveyed, creation of easements by implication, covenants for title, estoppel by deed, fraudulent conveyances, recording. Aigler, Cases on Titles to Real Property.
5 units, summer quarter (FRASER)
summer, 22

231. Rights in the Land of Another.—Natural rights, profits, easements, convenants running with the land, public rights, franchises, rents. Bigelow, Cases on Rights in Land.
4 units (KIRKWOOD) [Not given in 1923–24]

232. Future Interests.—Vested and executory interests; construction of limitations of future interests; powers; the rule against perpetuities; conditions; restraints on alienation. Kales, Cases on Future Interests.
6 units, spring quarter (OSBORNE)
spring, 12

233. Trusts.—The Anglo-American system of uses and trusts. Nature of a trust; other sorts of interests and relations distinguished; the creation, transfer, and extinguishment of trust interests—express, resulting and constructive; validity of trusts; effect of statutes; charitable trusts; priorities and relative validity of competing equities; importance of the legal title to one claiming adversely to a trust or other equitable interest; remedies of creditors against the trust property; duties of the trustee. Prerequisite: Law 202, Equity. Scott, Cases on Trusts.
6 units, spring quarter (BINGHAM)

234. Partnership.—Nature of a partnership, its purposes and members; creation of partnerships; nature of partner's interest; firm name and good will; mutual rights and duties of partners; actions between partners, at law and in equity; powers of partners; liability for acts of

partners in contract and tort; general liability of partners; dissolution and notice; consequences of dissolution; dissolution agreements respecting debts; distribution of assets to creditors and between partners; limited partnerships. Gilmore, Cases on Partnership.
4 units, summer quarter (second half) (PERKINS) Eight recitations weekly
summer, 16

235. Mortgages.—All forms of mortgage security, both real and chattel; essential elements of legal and equitable mortgages; legal and equitable rights, powers and remedies of mortgagor and mortgagee with respect to title, possession, rents and profits, waste, collateral agreements, foreclosure, redemption; priorities; marshaling; extension of mortgages; assignment of mortgages; discharge of mortgages.
4 units, summer quarter (second half) (OSBORNE) Eight recitations weekly
spring, 43; summer, 27

236. Bills and Notes.—Negotiability; form and inception, form of bill and of note, acceptance, delivery, consideration; negotiation, transfer, holder in due course; liability of parties, maker and acceptor, drawer and indorser, transferor; discharge; effect of the Negotiable Instruments Law. Colson's Huffcut's Cases on Bills and Notes.
6 units, winter quarter (VERNIER)
winter, 32

237. Suretyship.—Personal suretyship compared with real suretyship (mortgages, pledges, liens, etc.); suretyship obligations compared with insurance and indemnity obligations; guaranty and other forms of suretyship in relation to the Statute of Frauds; suretyship in transactions involving negotiable instruments; fidelity contracts and judicial bonds; surety's defenses due to original defects in his obligation or to its subsequent discharge; surety's right to subrogation, indemnity, contribution, or exoneration; creditor's right to surety's securities. Ames, Cases on Suretyship.
4 units, winter quarter (VERNIER)
winter, 12

238. Municipal Corporations.—Nature; creation, alteration, and dissolution; internal organization; powers; liabilities on contract and for torts; remedies. Beale, Cases on Municipal Corporations and selected California cases.
4 units (SHEPHERD) [Not given in 1923–24]

239. Evidence A.—This course deals with certain procedural and substantive law topics commonly considered in connection with evidence though not strictly a part of that subject. They are: judicial notice; functions of court and jury; presumptions; burden of proof; the parol evidence rule including construction of instruments. Hinton, Cases on Evidence.
3 units, spring quarter (HOLLAND)
spring, 12

(Courses numbered 250 and above are intended primarily for law graduates in their last year of study.)

250. Private International Law I (Conflict of Laws).—Considerations of the jurisdiction of a state and of foreign law in relation to

their influence upon the decisions of courts in cases involving events or things or persons under foreign jurisdiction. The study particularly includes questions of the jurisdiction of states and of courts; of the effects of foreign judgments and decrees; of legal domicile; of divorce; and of actions for foreign wrongs. Beale, Cases on Conflict of Laws (larger edition).
4 units, autumn quarter (BINGHAM)
autumn, 30

251. Private International Law II (Conflict of Laws).—A continuation of Law 250. The following topics are treated: property interests, decedent's estates, torts, legal capacity, marriage, marital interests, and contracts. Beale, Cases on Conflict of Laws (larger edition).
3 units, winter quarter (BINGHAM)
winter, 17

252. Private Corporations.—The nature of a corporation; promotion of corporations; corporate powers; corporate liability for torts and crimes; unauthorized corporate action, including doctrines of *de facto* incorporations and *ultra vires* acts; officers, stockholders, and creditors of corporations; reorganization of corporations. Warren, Cases on Corporations (2d ed.).
6 units, spring quarter (OWENS)
spring, 29

253. Code Pleading.—Actions: splitting and consolidation of demands; one form of action; special proceedings. The complaint: facts constituting the cause of action; demand for judgment; joinder of causes of action. Demurrers: admission by demurrer; grounds of demurrer; effect on prior pleadings. The answer: general and specific denials; new matter; several defenses. The reply: when necessary; new assignment; departure. Selected cases.
4 units, autumn quarter (CATHCART)
autumn, 18

254. Evidence I.—Introductory topics. Witnesses: competency; privilege; examination; impeachment; rehabilitation. Certain rules of exclusion; conjectural evidence; character evidence; hearsay. Hinton, Cases on Evidence.
3 units, autumn quarter (HOLLAND)
autumn, 30

255. Evidence II.—The exceptions to the hearsay rule: opinion evidence; real evidence; proof of execution of writings; the "best evidence" rule. Prerequisite: Evidence I. Hinton, Cases on Evidence.
3 units, winter quarter (HOLLAND)
winter, 18

Practice.—In this course consideration is given to the procedural problems confronting the lawyer in the commencement and prosecution of a civil action, the subject of pleading, which is taught in other courses, being omitted. The problems are studies as nearly as possible in the order of appearance in an action. In the third quarter a court is organized and students are given practice in the institution and conduct of a civil action, including preparation and service of all writs, pleadings, motions, etc.; argument on law and motion matters, setting case for

trial, and trial of an actual case before a jury chosen from members of the first and second year classes; appeal, preparation of record and briefs on appeal, and argument on appeal. Probate and administration proceedings in an estate are also conducted.

256. *Practice I.*—Necessity for a cause of action; statutes of limitation; parties to action; venue; jurisdiction; process. Case book to be announced.
4 units, autumn quarter (OWENS)
autumn, 31

257. *Practice II.*—Appearance; provisional remedies; motions; trial; verdict; judgment. Prerequisite: Practice I. Case book to be announced.
4 units, winter quarter (OWENS)
winter, 31

258. *Practice III.*—Effect of judgments on subsequent proceedings; proceedings subsequent to trial; execution; costs; appeal; probate and administration proceedings. Prerequisites: Practice I and II. Case book to be announced.
4 units, spring quarter (OWENS)
spring, 26

259. Problems of Judicial Administration.—The difficulties of judicial organization and procedure with the remedies adopted or proposed. Special topics such as: sources of procedural law, statutes and rules of court; selection and tenure of judges; court organization; special courts; arbitration and conciliation; the bar; legal aid; costs; simplification of pleadings; rules of evidence; the jury; appeals; uniformity. Primarily for graduate students, but also open, with permission from the instructor, to well-prepared undergraduates in their fourth year, and should be preceded when possible by the course in practice, pleading, and evidence. May not be counted toward a degree in law unless the student has obtained previous credit in Contracts I, II, III and in Torts I, II.
4 units, spring quarter (WHITTIER) [Not given in 1923–24]

LIBRARY

GEORGE THOMAS CLARK, Director of University Libraries.
CHARLES V. PARK, Assistant Librarian.
HELEN BINNINGER SUTLIFF, Chief Cataloguer.
ALICE NEWMAN HAYS, Reference Librarian.
ELIZABETH HADDEN, Chief Order Division.
LOUISE OPHÜLS, Medical Librarian.
NINA ALMOND, Hoover War Librarian.
MINNA STILLMAN, Document Librarian.
FRANCES E. SHELDON, Law Librarian.

The Library is open during term time on week days from 8 a. m. to 10 p. m., except on Saturdays, when it is closed at 5 p. m. The Sunday hours are from 2 p. m. to 6 p. m. During vacations the hours are from 8:30 a. m. to 4:30 p. m., Saturdays to 12:30 p. m. The shelves are open to members of the faculty and, on recommendation of their instructors, to students engaged in advanced work. Books, other than

works of reference, not required for class use or otherwise restricted, are available under prescribed rules for circulation to those entitled to the privileges of the Library. A handbook giving information relative to the Library and how to use it has been published and may be obtained upon request.

The Library is available for use by all registered students without the payment of additional fees. Visitors regularly attending lecture courses or other University exercises, but not registered, are entitled to the privileges of the Library upon payment of a fee of $1.25 per quarter.

Including the departments of law and medicine, the Library contains upward of 370,000 volumes, and its maintenance and growth are insured by the income of the Jane Lathrop Stanford Jewel Fund, certain other special funds, and by fees.

The Library building is well adapted to meet the needs of advanced and graduate students. It contains nine rooms in which seminar classes may be held and one large room which serves as a reading room for students in seminar classes; and tables on each floor of the stack make it possible for any graduate student to work in easy reach of the material in his field.

On the first floor—in the Hoover War Library and in the Document Room—are two collections of especial interest to research workers in the fields of history and economics.

The Document division brings together the Library's collection of city, state, and federal documents. It is especially strong in the publications of the United States, Great Britain, Canada, and Australia, and those of other countries are being added as fast as circumstances permit. The collection now numbers 40,000 volumes besides much unbound material.

The Hoover War Library contains some 100,000 printed and manuscript items on all aspects of the Great War, 1914–18, and for all nations whether warring or neutral. It is rich in government documents, in delegation propaganda at the peace conferences, in files of the publications of social and political societies, and in newspapers. A special reading room facilitates the use of the collection.

Other noteworthy special collections are:

The Jordan Library of Zoology.—A collection consisting largely of works on ichthyology, to a considerable extent made up of a vast number of author's separates, which have been accumulated by Chancellor Jordan, bound in convenient form, indexed and catalogued. The more voluminous publications, such as the works of Cuvier, Lacépède, Bloch, Bleeker, Günther, and others, are well represented. These, supplemented by the proceedings of various societies and institutions, make a collection of books of great value to advanced students and investigators in ichthyology. The library is conveniently arranged, in Jordan Hall, near the laboratories and collections.

The Barbara Jordan Library of Birds.—A memorial collection presented by Chancellor Jordan, to which frequent additions are made. While some of the older texts are not represented, it is a good working library of ornithology and contains the principal modern works.

The Branner Geological Library.—The geological library (Room 333) is the result of twenty-five years of painstaking acquisition by Dr.

John Casper Branner. It includes a vast wealth of material relating to geology, paleontology, mineralogy, geography, mining and metallurgy, and is especially well equipped with files of journals and the transactions of scientific societies, together with a large collection of state and government reports.

The Hopkins Railway Library.—A collection of approximately 10,000 volumes and pamphlets dealing with the subject of transportation. In 1892 Mr. Timothy Hopkins, of San Francisco, presented to the University his private library on railroads—about 2,000 books—personally providing for its maintenance and growth for many years. The collection is general in scope, intended to embrace all subjects touching on the building, maintenance, and operation of railways; and is especially rich in state and government reports, as well as in reports of individual railroads both in the United States and Europe, with much material pertaining to their history.

The Law Library.—A library of about 30,000 volumes, selected with care and adequate for the study of English and American law. It contains practically complete sets of the reports of the courts of England, Scotland, Ireland, Canada, the United States, and the several states, together with a valuable collection of statutes, treatises and periodicals.

The Lane Medical Library.—Founded by the directors of Cooper Medical College in accordance with the bequest of Mrs. L. C. Lane, and located opposite the other medical buildings, on the corner of Sacramento and Webster streets, San Francisco. The library contains about 60,000 volumes and is particularly rich in its collection of medical and allied periodicals. The leading domestic and foreign journals are currently received.

Two important special collections are the Barkan library of ophthalmology and oto-laryngology, endowed by Dr. A. Barkan, professor emeritus of ophthalmology, and the new library on the history of medicine, supported by Stanford University and Dr. A. Barkan conjointly. To date this library contains about 5,000 volumes.

MATHEMATICS

Robert Edgar Allardice, Rufus Lot Green, Hans Frederik Blichfeldt, Professors.
Marie J. Weiss, Assistant in Instruction (Summer Quarter)

The courses in this department have been arranged to meet the wants of two classes of students—those whose major subject is Mathematics, and those who, while taking their major in some other department, desire to include some mathematics in their course. Students in engineering are provided for in the Department of Applied Mathematics.

For students who have not had trigonometry and solid geometry in high school, the prerequisites for majoring in Mathematics are: Courses 1, 2, 10, and 11 during the first two years (with either French of German recommended for beginning in the freshman year). Course 140 should be taken at the commencement of the junior year. For the

bachelor's degree, four other courses (including differential equations) to be selected from those following Course 140.

Students who desire to take one or more years in Mathematics as a part of a liberal training are recommended to begin their work in this department with one or more of Courses 1, 2, 10, and 20.

THE TEACHER'S RECOMMENDATION.—For a minor in Mathematics the following are required: Courses 1, 2, 10, 11, 200*a*, and for a major, Course 140 in addition.

1. Trigonometry.—Elementary courses with applications involving logarithmic calculation.
4 units, autumn, *winter, and *summer quarters (BOOKER, KELLEY) (autumn) MWF 9, 11; (winter) MWF 9
autumn, 35; winter, 18; summer, 7

2. Solid Geometry.—Elementary course.
3 units, winter quarter (BOOKER) MWF 11
winter, 3

10. Algebra.—Fundamental laws, degree, symmetry, indeterminate coefficients, remainder theorem, factors, introduction to theory of equations. Presupposes entrance credit in elementary algebra.
5 units, autumn quarter (GREEN) MTWThF 9
4 units, summer quarter (WEISS) MTThF 11
autumn, 8; summer 4

11. Coördinate Geometry.—An elementary course in the analytic geometry of the conic sections. Presupposes Course 10.
5 units, winter and spring quarters (GREEN) MTWThF 9
winter, 9; spring 5

20. General Course.—An elementary survey of trigonometry, coördinate geometry, calculus, and statistics, sufficient to cover the ordinary needs of science majors as well as of other students who cannot afford the time required for the separate courses, but who desire an understanding of the fundamental principles involved and an ability to put these principles to practical use. Presupposes elementary algebra and plane geometry.
5 units, autumn, winter, and spring quarters (BLICHFELDT) MTWThF 9
autumn, 29; winter, 15; spring, 5

120. Mathematical Theory of Investments.—An introductory course, presupposing a college course in algebra or two years of algebra in the high school; also, ability to use logarithms.
5 units, autumn quarter (GREEN) MTWThF 8
autumn, 19; spring, 4

121. Life Insurance.—An introduction to actuarial theory. Presupposes Course 120.
5 units, winter quarter (GREEN) MTWThF 8
winter, 19

140. Differential and Integral Calculus.—An elementary course.
5 units, autumn and winter quarters (ALLARDICE) MTWThF 9
autumn, 9

141. Advanced Calculus.—A continuation of Course 140.
5 units, spring quarter (ALLARDICE) MTWThF 9
winter, 6; spring, 10

150. Differential Equations.
5 units, autumn quarter (Blichfeldt) MTWThF 10
5 units, summer quarter (Manning) MTWThF 9
winter, 18; summer, 9

155. Projective Geometry.
5 units, autumn quarter (Allardice) MTWThF 11
autumn, 11

160. Advanced Algebra.
4 units, winter quarter (Blichfeldt) [Not given in 1923–24]

200a. Plane Geometry.
5 units, winter quarter (Allardice) MTWThF 9
winter, 10

200b. Teacher's Course in Algebra.
5 units, spring quarter (Green) MTWThF 8
spring, 4

200c. Non-Euclidean Geometry.
4 units, spring quarter (Blichfeldt) TWThF 10
spring, 6

205. Theory of Functions.
5 units, spring quarter (Allardice) MTWThF 11
4 units, summer quarter (Manning) TWThF 8
spring, 9; summer, 7

210. Selected Readings.
(Allardice, Green, Blichfeldt) [By arrangement]
autumn, 3 (3 groups); winter, 3; spring, 3

220. Seminar in Groups of Finite Order.
(Manning) [By arrangement]

251. Advanced Differential Equations.
3 to 6 units, summer quarter (Kelley)
summer, 6

MEDICINE

William Ophüls, Dean.
Albion Walter Hewlett, Secretary of the Medical Faculty.

Admission to the Medical School

Applicants for admission to the School, or for advanced standing in Medicine, should communicate with the Registrar, Stanford University, California. Those desiring information relative to the upper classes of the School (*i. e.* from the sixth to the twelfth quarters) should communicate with the Dean, Stanford University Medical School, 2398 Sacramento Street, San Francisco, California.

The prerequisites for admission to this school are:

(1) Graduation from high school (or its equivalent), comprising fifteen recommended units as defined by the University for admission to the freshman class.

(2) Three full years of college work, totaling 135 units (90 semester

units) of a grade equivalent to that of Stanford University (counting as many grade points as there are units). The required work in these three years is that laid down by the Association of American Medical Colleges in physics, chemistry, biology, and English, together with a reading knowledge of either French or German, and additional work in chemistry and biology, as indicated below.

(3) In addition to the A. A. M. C. minimum in chemistry, the University requires Qualitative and Quantitative Analysis and Organic Chemistry.

(4) In biological science the University requires 15 quarter units, or 10 semester units, made up of courses in General Zoology (or General Biology), Comparative Anatomy of the Vertebrates, and General Vertebrate Embryology, substantially equivalent to the courses in those subjects given at Stanford University as indicated below.

Special students are not admitted to registration in Medicine, and *no conditions are permitted.* Candidates for admission who will have completed the above requirements in June 1925, except for a few units in collegiate subjects, should plan to make up the deficiencies in full by attendance at sessions during the summer of 1925.

In practice the above requirements as applied to the pre-medical courses of Stanford University students, work out about as follows:

CHEMISTRY

Course 7 (General Inorganic Chemistry), 2 units.
Course 9 (General Inorganic Chemistry), 2 units.
Course 4 (General Inorganic Laboratory), 3 units.
Course 20 (Qualitative Analysis), 6 units.
Courses 113 and 114 (Quantitative Analysis), 5 units.
Course 127 (Organic Chemistry), 5 units.

(Students without entrance credit in chemistry take Courses 1, 2, and 3 instead of 7 and 9. Total, 23 (or 28) quarter units; 15⅓ (or 18⅔) semester units.)

PHYSICS

Course 1 (Mechanics and Heat), 5 units.
Course 2 (Electricity and Light), 4 units.
Course 3 (Lenses), 1 unit.
Course 20 (Modern Physics), 3 units.
Total, 13 quarter units (8⅔ semester units).

BIOLOGY

Course (General Zoology), 5 units (or General Biology 1, 2, and *a*, 9 units).
Course 11 (Comparative Anatomy of the Vertebrates), 5 units.
Course 13 (Vertebrate Embryology), 5 units.
Total, 15 quarter units (10 semester units).

ENGLISH

Nine quarter units (6 semester units).

FRENCH OR GERMAN READING KNOWLEDGE

This varies somewhat with the ability of the student but implies at least the equivalent of a year's work of 15 quarter units.

The Curriculum in Medicine

The required period of study for the degree of Doctor of Medicine is twelve quarters plus the interne year. The work of the first four quarters is given at Stanford University and is devoted to anatomy, bacteriology, chemistry, histology, neurology, and physiology. The next eight quarters are devoted to work in the pharmacological, pathological, and clinical laboratories and in the hospital wards and the out-patient department in San Francisco. The last year is spent in hospital work.

In order to correlate the work of some of the departments and to facilitate research in others, all courses in Medicine, except those in anatomy, bacteriology, chemistry, and physiology, are given in San Francisco. By reducing the number of required hours to approximately the number decided upon by the Association of American Medical Colleges, the student's opportunity for taking optional and elective courses has been increased and time obtained for thesis work.

Fees

The tuition fee for all students (graduate and undergraduate) in the School of Medicine is $85, and the guild fee $2, per quarter. Medical students desiring membership in the Stanford Union, Women's Clubhouse, or Associated Students, or the use of the gymnasia and athletic grounds, will pay the usual fees designated for these purposes. A deposit to cover breakage or loss of apparatus and materials is required in every department, such deposits being returnable, less charge for breakage, loss, or wear and tear of apparatus. The total deposits for this purpose vary from $10 to $20 per annum.

Drafts and checks should be drawn for the exact amount to the order of Stanford University Medical School, as no change can be returned on students' checks or drafts.

I. ANATOMY

Arthur William Meyer, Charles Haskell Danforth, Frank Mace McFarland, Professors.
Clara S. Stoltenberg, Associate Professor.
Herlwyn R. Green, Teaching Assistant.
Emily M. Bartlett, Assistant.
Frank Barrett, Technical Assistant.

(For outline of courses see under Anatomy, p. 138.)

II. BACTERIOLOGY AND EXPERIMENTAL PATHOLOGY

Wilfred Hamilton Manwaring, Professor.
Edwin William Schultz, Associate Professor.
John Edward Blair, Instructor.

(For outline of courses see under Bacteriology and Experimental Pathology, p. 143.)

III. CHEMISTRY

Robert Eckles Swain, Professor.
†Norris Watson Rakestraw, Instructor.

Biochemistry.—(See Course 141, Department of Chemistry.)
5 units (55 hours), autumn and *summer quarters (SWAIN) MTWThF 8

Biochemistry.—A laboratory course, and should be preceded by the equivalent of Courses 20, 113, and 114 (Qualitative and Quantitative Analysis) and Course 127 (Organic Chemistry) in the Department of Chemistry.
4 units (132 hours), autumn or summer quarter
(SWAIN) Four afternoons 1:05–4:05

Students enrolled as Medical students are required to deposit $15 breakage fee for Course 142; other University students pay the usual fee of $30.

IV. HYGIENE AND PUBLIC HEALTH

WILLIAM OPHÜLS, Acting Executive.
MORTON RAYMOND GIBBONS, Lecturer on Medical Aspects of Insurance.

201. Hygiene.—This course covers the usual field of Hygiene and Public Health, the practicing physician's duties and opportunities in the field of preventive medicine being emphasized. (Three quarters required.)
1 hour (11 hours), spring quarter, junior year
1 hour (22 hours), autumn and winter quarters, senior year
(OPHÜLS) (R 311) F 3:30–4:30
autumn, 30; winter, 27; spring, 26

202. Military Medicine.—Lectures covering the subjects of camp sanitation, transmissible diseases, organization of Medical Corps, health of the soldier, etc. Given by members of the U. S. Army Medical Corps.
1 hour (11 hours), winter quarter (R 311) W 3:30–4:30
winter, 28

203. Industrial Accident Insurance.—Lectures on medicine and surgery in their relation to industrial accidents dealing with medical and insurance aspects of the Compensation Law. Given by members of the Medical School staff in conjunction with certain members of the Industrial Accident Commission of the State of California.
1 hour (11 hours), spring quarter
(M. R. GIBBONS and others) (R 311) M 4:30–5:30
spring, 28

204. Life Insurance.—Lectures on medical aspects of life insurance.
1 hour (11 hours), autumn quarter
(M. R. GIBBONS and others) (R 311) M 4:00–5:00
autumn, 29

V. MEDICINE

ALBION WALTER HEWLETT (Executive), THOMAS ADDIS, ERNEST CHARLES DICKSON, HAROLD KNIEST FABER, Professors.
HARRY EVERETT ALDERSON, WILLIAM FITCH CHENEY, WILLIAM R. P. CLARK, HAROLD PHILLIPS HILL, WALTER FRANK SCHALLER, Clinical Professors.
WILLIAM EDWARD CHAMBERLAIN, HENRY GEORGE MEHRTENS, Associate Professors.

† Absent on leave.

Walter Whitney Boardman, Thomas George Inman, Alfred Cummings Reed, Julian Wolfsohn, Henry Herbert Yerington, Associate Clinical Professors.

Robert Reid Newell, Assistant Professor.

George de Forest Barnett, Millicent Mary Cosgrave, James Arthur Cutting, Mary H. Layman, Harry Reeves Oliver, Arthur Aloysius O'Neill, Philip Hale Pierson, Harry Spiro, Assistant Clinical Professors.

Harry Alphonso Wyckoff, Instructor.

Clement Harrise Arnold, Wallace H. Barnes, Joseph H. Catton, Norbert J. Gottbrath, Maude Noble Haven, Harvey S. Hunsberger, Willard E. Kay, Thomas Henshaw Kelly, William Kenney, John J. Kingston, Frank A. Kinslow, Frederick Walter Kroll, Peter Harrison Luttrell, Mary Jones Mentzer, Jay Marion Read, Joseph Abraham Sampson, Hermann Schussler, Jr., Clinical Instructors.

George Henry Becker, Martin Benzinger, Harry Carson Coe, W. Edward Glaeser, Joel H. Hansen, John Kent Lewis, James C. Parrott, Guy D. Schoonmaker, Dwight E. Shepardson, Edward F. Stadtherr, Louise Everett Taber, Assistants.

Adelaide Brown, Lecturer on Child Hygiene.

Guy Stevens Farrington, Lecturer on Speech Defects.

Arthur John Ritter, Lecturer on Mental Deficiency.

DIVISIONS

Pediatrics	Electrotherapy	Tuberculosis
Neuro-Psychiatry	Radiology	Dietetics
Jurisprudence	Tropical Medicine	
	Cutaneous Medicine and Syphilis	

Instruction in the Department of Medicine commences in the fifth quarter of medical registration, at which time the course in Physical Diagnosis is started at Palo Alto. During the sixth quarter this course is finished in San Francisco and a course in Clinical Pathology (Medicine 202) is also given, these courses being prerequisite for most other courses in this department.

Before beginning the interne year students are required: (1) to have completed the prescribed courses; and (2) to have passed a final examination in Internal Medicine, Neurology, Diseases of Children, and Cutaneous Medicine.

Deviations from this general plan of work are permitted only after obtaining permission of the instructors involved and of the Executive Head of the Department of Medicine.

COURSES FOR SECOND-YEAR MEDICAL STUDENTS

201. Physical Diagnosis.—An introductory course in physical diagnosis, based mainly upon a study of normal subjects, is offered during the winter quarter at Stanford University, with a continuation, based mainly upon the study of subjects presenting physical abnormalities, during the spring quarter in San Francisco.

4 hours, winter quarter, at Stanford University (Barnett)
4 hours, spring quarter, at San Francisco (Barnes, Read)
(88 hours in all) (Lane Hall) TTh 10:30–11:30; (SFH) S 8:30–10:30
winter, 32; spring, 33

202. Clinical Pathology.—Lectures and laboratory work, the student carrying out the usual methods of examining the urine, blood, sputum, gastric contents, feces, and spinal fluid, and noting the significance of abnormalities.

4½ hours (49 hours), spring quarter, in San Francisco
(Wyckoff) (R 312b) MF 9:30–11, S 11–12:30
spring, 33

For Third-Year Medical Students

203. Diseases of the Thoracic Organs.—Clinics and recitations. Given to half-class sections.

3 hours (33 hours), autumn or winter quarter
(Spiro) (Lane Hall) MWF 10:30–11:30
autumn, 15; winter, 14

204. Diseases of the Digestive Tract.—Clinics and recitations. Given to half-class sections.

3 hours (33 hours), autumn or spring quarter
(Boardman, Kroll, Luttrell) (R 311) MW 10:30–11:30
autumn, 14; spring, 14

205. (a) Tuberculosis; (b) Minor Complaints.—Given to sections of half the class.

2 hours (22 hours), winter or spring quarter
(Pierson, Arnold) (R 311) M and W or F 10:30–11:30
(a) winter, 14; spring, 12
(b) winter, 14; spring, 12

206. Diseases of the Kidneys, the Blood and of Metabolism.—Clinics and recitations.

3 hours (33 hours), autumn quarter
(Addis, Haven) (R 312) TThS 9:30–10:30
autumn, 29

207. Experimental Medicine.—Discussion of selected topics dealing with the functional pathology of internal diseases.

2 hours, autumn quarter; 1 hour, winter and spring quarters
(44 hours in all) (Hewlett)
(Lane Hall) (autumn, winter, spring) M 11:30–12:30; (autumn) Th 11:30–12:30
autumn, 29; winter, 28; spring, 26

208. Tropical Medicine.—Clinics and recitations.

2 hours (22 hours), spring quarter
(Reed) (Lane Hall) T 8:30–9:30, W 9:30–10:30
spring, 26

209. Diseases of the Endocrine Glands.—Clinics and recitations.

1 hour (11 hours), spring quarter (Kay) (R 311) S 10:30–11:30
spring, 26

210. Physical Therapeutics.—Lectures and demonstrations of various methods other than the use of drugs that are employed in the treatment of diseases: including hydrotherapy, electrotherapy, mechanotherapy, etc.

2 hours (22 hours), winter quarter (Langnecker) (R 311) MTh 2:30–3:30
autumn, 29; winter, 28

211. Dietetics.—Lectures and recitations.

2 hours (22 hours), spring quarter (Addis) (R 311) MF 2:30–3:30
spring, 26

212. Pediatrics.—Presentation of cases and recitations from assigned reading.
1 hour (22 hours), autumn and winter quarters
(FABER, COSGRAVE) (Lane Hall) T 11:30–12:30
winter, 28

213. Pediatrics.—Physical diagnosis and history taking; theory of infant feeding; diseases and special problems of the new-born.
1 hour (22 hours), autumn and winter quarters
(FABER and others) (Lane Hall) S 10:30–11:30
autumn, 29; winter, 28

214. Lectures on Pediatrics.—Communicable diseases (autumn); child welfare (winter); mental deficiency (spring).
1 hour (33 hours), autumn, winter, spring quarters (O'NEILL, BROWN, RITTER)
(Lane Hall) (autumn and winter) Th 1:30–2:30; (spring quarter) T 11:30–12:30
autumn, 29; winter, 28; spring, 26

215. Neurology.—Clinics, lectures, and recitations.
2 hours (44 hours), winter and spring quarters
(INMAN) (Lane Hall) TTh 9:30–10:30
winter, 29; spring, 26

216. Dermatology.—Lectures and recitations.
1 hour (22 hours), winter and spring quarters
(ALDERSON) (R 311) S 9:30–10:30
winter, 29; spring, 26

217. Radiology.—Lectures and section work.
2 hours (22 hours), winter quarter (CHAMBERLAIN, NEWELL)
(Lane Hall) Lecture T 3–4; (X-Ray Dept.) Sections MWF 4:30–5:30
autumn, 16; winter, 22

FOR FOURTH-YEAR MEDICAL STUDENTS

(For morning work the fourth-year class is divided into two sections, one of which works at the San Francisco Hospital, the other in the Lane Hospital and Out-Patient Department.)

218. Set Clinic in Medicine.—Demonstration of patients from the ward and out-patient services of Lane Hospital.
1 hour (38 hours) third year, winter and spring quarters
(Lane Hall) Fourth year, one and one-half quarters W 11:30–12:30
autumn, 58; winter, 29; spring, 39

219. Ward Work: Lane Hospital.—For section at Lane Hospital.
4 hours (64 hours) (HEWLETT, CHENEY, REED, DICKSON) MTWTh 8:30–9:30
autumn, 14; spring, 13

220. Ward Work and Clinics: San Francisco Hospital.
Ward clinics.
7 hours for eight weeks (56 hours)
(HILL, READ, KENNEY, LEE) MTWF 8:30–10, Th 11–12
autumn, 14; spring, 14

Set clinic.
1½ hours for 16 weeks (24 hours) (HILL) F 10–11:30
autumn, 14; spring, 14

221. Tuberculosis Clinic: San Francisco Hospital.—Ward clinics for sections.
1 hour (16 hours) (CLARK) MS 9:30–10:30
autumn, 14; spring, 14

222. Neurology.—Ward work: Lane Hospital.
1 hour (16 hours) (SCHALLER) W 9:30–10:30
autumn, 15; spring, 13

223. Neurology Clinic: San Francisco Hospital.—Clinics.
2 hours (32 hours) (WOLFSOHN) W 10–12
autumn, 14; spring, 14

224. Cutaneous Medicine.—Demonstration of patients, lectures, and quizzes.
1½ hours (24 hours) (ALDERSON) (R 311) T 11–12:30
autumn, 15; spring, 13

225. Out-Patient and Ward Work in Pediatrics and Cutaneous Medicine.—Practical course, and students taking it are expected to arrange at the same time for spending the necessary 12 hours in Obstetrics 208.
6 hours
(84 hours) (FABER, COSGRAVE, YERINGTON, ALDERSON)
M 9:30–10:30; Th. 9:30–11:30; F 10–11; S 9:30–11:30
autumn, 15; spring, 13

226. Communicable Diseases.—Ward clinics to sections at San Francisco Hospital.
2 hours (32 hours) (O'NEILL) TS 10–12
autumn, 15; spring, 14

227. Radiology.—Section work. Given to sections of one-fourth the class.
1 hour (11 hours), spring quarter
(CHAMBERLAIN, NEWELL) (X-Ray Department) TWThF 4:30–5:30
spring, 28

228. Psychiatry.—A weekly lecture preceded by a clinic.
1½ hours (49 hours), autumn, winter, and spring quarters
(MEHRTENS, CUTTING) (Lane Hall) M 1:30–3
autumn, 29; spring, 28

229. History of Medicine.—In association with other departments a weekly lecture or recitation is held, the aim being to have each department present that portion of the history of medicine in which it is most interested. The students are assigned a certain amount of journal and other preparatory work.
1 hour (11 hours), winter quarter
(OPHÜLS, STILLMAN, HEWLETT, SPALDING) (Lane Library) T 3:30–4:30
winter, 28

230. Jurisprudence.—The instruction in this course is divided among the various departments, each one covering the points most essential to it.
1 hour (11 hours), autumn quarter (R 311) F 2:30–3:30
autumn, 29

OPTIONAL COURSES FOR SENIORS

(a) Radiology.—Special work in consultation with the subdivision of Radiology, either Therapy or Diagnosis optional.
autumn quarter (CHAMBERLAIN, NEWELL) [By arrangement]

(b) Roentgenoscopy.—Experience in actual use of the fluoroscope. Limited to two students per section, five sections.
1 hour (11 hours), autumn quarter
(CHAMBERLAIN, NEWELL) (X-Ray Department) MTWThF 3:30–4:30
autumn, 15

(c) Bright's Disease and Diabetes.—An optional course in summer on diagnosis and treatment of Bright's Disease and Diabetes. Clinics and laboratory work. (Whole day, with occasional hours off for anæsthetics, special clinics, etc.)

(d) Abnormal Psychology.—An optional course in summer.
2 hours (MEHRTENS, WHITMIRE) [By arrangement]

VI. OBSTETRICS AND GYNECOLOGY

ALFRED BAKER SPALDING, Professor.
GEORGE BURBANK SOMERS, Clinical Professor.
LUDWIG AUGUSTUS EMGE, Associate Professor.
WILLIAM E. STEVENS, Associate Clinical Professor (Urology).
HENRY WALTER GIBBONS, FRANK ROBERT GIRARD, HENRY AUGUSTUS STEPHENSON, Assistant Clinical Professors.
ALBERT VICTOR PETTIT, Instructor.
KARL LUDWIG SCHAUPP, Clinical Instructor.
ELIZABETH ARTHURS, HARRY E. CLAY, HANS VON GELDERN, LEWIS MICHELSON, ARTHUR LEE MUNGER, Assistants.

(Students before graduation must pass in at least 165 hours of Obstetrics and 78 hours of Gynecology; must witness, in their junior year, at least ten hospital confinements; and attend, in their senior year, at least four confinements in patients' homes. Women students must register for Optional Courses 213, 214, and 215 as a substitute for Surgery 218. Subjects are given and hours arranged for thesis work.)

COURSES FOR SECOND-YEAR MEDICAL STUDENTS

201. Obstetrics.—Normal pregnancy, labor, and puerperium.
2 hours (22 hours), spring quarter (STEPHENSON) (R 506) TTh 8:30–9:30
spring, 34

FOR THIRD-YEAR MEDICAL STUDENTS

202. Obstetrics, Laboratory.—Lecture for one hour a week, laboratory work two hours a week.
3 hours (33 hours), autumn quarter
(EMGE, PETTIT, MUNGER) (R 506) F 8:30–9:30, 1:30–3:30
autumn, 29

203. Gynecology.—Lecture one hour a week, laboratory two hours a week.
3 hours (33 hours), autumn quarter
(SPALDING, MUNGER, VON GELDERN) (R 506) M 8:30–9:30, 2:30–4:30
autumn, 29

204. Obstetrics.—Abnormal pregnancy and labor.
3 hours (33 hours), winter quarter (SPALDING) (R 506) MTF 8:30–9:30
winter, 29

205. Obstetrics.—Abnormal puerperium and obstetrical operations.
2 hours (22 hours), spring quarter (EMGE) (R 506) MF 8:30–9:30
spring, 26

206. Ward Rounds or Women's Clinic.—One-third of class.
3 hours (33 hours) autumn, winter, spring quarters
(STEPHENSON, VON GELDERN and RESIDENT) (autumn)
(STEPHENSON, PETTIT, and RESIDENT) (winter)
(SCHAUPP, MUNGER, and RESIDENT) (spring)
(Each quarter) M 9:30–10:30; W 1:30–2:30
autumn, 10; winter, 9; spring, 8

For Fourth-Year Medical Students

(For morning work the fourth-year class is divided into two sections, one of which attends the San Francisco Hospital, the other, Lane Hospital.)

207. Manikin Exercises.—One-third of class.
1 hour (11 hours), autumn, winter, and spring quarters
(Schaupp) (autumn); Von Geldern) (winter); (Munger) (spring)
(R 515) One section, W 1:30–2:30; other section, F 1:30–2:30
autumn, 10; winter, 10

208. Women's Clinic.—Three students for periods of three weeks.
12 hours' clinic work, autumn, winter, spring quarters (Gibbons, spring)
(Girard, autumn and winter) M 9:30–10:30; Th 9:30–11:30; F 10–11
winter, 19; spring, 8

209. Ward Rounds Gynecology.—One-third of class divided into two sections.
1 hour (11 hours), autumn, winter, and spring quarters
(Spalding, Emge) (autumn, Pettit); (winter, spring, Emge)
(spring) One section, W 1:30–2:30; other sections, F 1:30–2:30
autumn, 10; winter, 8; spring, 10

210. Operating Room: Lane Hospital.—One-third of class.
1 hour (11 hours), autumn, winter, and spring quarters
(Spalding) (autumn and winter quarters); (Emge) (spring) F 1:30–2:30
autumn, 10; winter, 10; spring, 8

211. Operating Room: San Francisco Hospital.—One-half of class. Students may elect either Course 210 or 211.
1 hour (11 hours), autumn, winter, spring quarters
(Gibbons) (autumn and winter); (Girard) (spring) S 8:30–9:30
autumn, 14; spring, 14

212. Set Clinic.—Senior students must attend either autumn or spring quarter, and juniors the spring quarter.
1 hour (11 hours), autumn and spring quarters
(Spalding) (autumn); (Emge) (spring) (Lane Hall) S 11:30–12:30
autumn, 14; spring, 39

Optional Courses

213. History Taking: Women's Clinic.—Limited to 2 students.
2 hours (22 hours), autumn, winter, and spring quarters
(Pettit) MF 8:30–9:30

214. Ward Rounds, Obstetrics or Gynecology and Operating Room, San Francisco Hospital.—Women students may substitute this for Surgery 218.
2 hours for eight weeks (16 hours), autumn and spring quarters
(Gibbons) (autumn); (Girard) (spring) T 10–11; S 8:30–9:30
spring, 1

215. Women's Clinic: Cystoscopy.—Required of women students as part substitute for Surgery 218.
1 hour (11 hours), autumn, winter, and spring quarters
(Stevens) (autumn and winter); (Michelson) (spring) TTh 8:30–9:30
autumn, 4; winter, 4

VII. PATHOLOGY

William Ophüls, Professor.
Jean Redman Oliver, Associate Professor.

The following courses in Pathology are required of medical students: Pathology 201 (*b*), one quarter Pathology 203, three quarters; Pathology 204, one and one-half quarters.

Courses for Second-Year Medical Students

201. General Pathology (b).—A course of lectures, demonstrations, and laboratory work which covers inflammations, granulomata, and tumors. One lecture of one hour and two laboratory periods of two and one-half hours each per week. Continuation of Course 204 offered by Department of Bacteriology and Experimental Pathology. Prerequisites: Histology, Bacteriology, General Pathology (*a*).

6 hours (66 hours), spring quarter
(Ophüls, Oliver) (R 405) TTh 1:30–4; M 8:30–9:30

202. General Pathology.—An optional course of weekly recitations covering the same ground as Course 201.

1 hour (11 hours), spring quarter (Oliver) [By arrangement]

Course for Third-Year Medical Students

203. Special Pathology.—Demonstrations of fresh and preserved gross and microscopical specimens, illustrating selected chapters on Human Pathology, with part of the time devoted to the technique of postmortem examinations. Diagnostic work is done in the spring quarter. Prerequisite: General Pathology (*a*) and (*b*).

4 hours (132 hours), autumn, winter, and spring quarters
(Ophüls, Oliver) (Morgue, Lane Hospital) W 2:30–4:30; (R 405) WS 8:30–9:30
autumn, 29; winter, 29; spring, 26

Courses for Fourth-Year Medical Students

204. Clinico-Pathological Demonstrations.—One and one-half quarters required, and supplemented during the summer quarter by demonstrations of microscopical specimens at some convenient hour.

1 hour (16 hours) (Oliver) (Morgue, Lane Hospital) M 11:30–12:30
autumn, 15; spring, 13

205. Research Work in the Pathological Laboratory.—May be taken during any of the four quarters but, owing to limited accommodations, students should plan to accomplish an amount of work sufficient to insure against a withdrawal of laboratory privileges. A deposit of $10 is required to cover material used by the student in the course of his work, on the completion of which any balance remaining is refunded. Students wishing to do special work in the laboratory should consult with the Executive of the Department in regard to the selection of a proper subject for investigation. The prerequisite for special work is Course 201. The same regulations apply to work on theses or for advanced degrees in the department, except that in the latter case the students also should have finished Course 203. However, this is optional.

During the summer quarter a special effort is made to accommodate properly prepared undergraduates or graduates who wish to do experimental work in Pathology.

(Ophüls, Oliver)

VIII. PHARMACOLOGY AND THERAPEUTICS

Paul John Hanzlik, Professor.
Floyd De Eds, Instructor.
Russell V. Lee, Clinical Instructor in Therapeutics.
Maurice L. Tainter, Assistant.
Elizabeth Presho, Research Assistant.

Second-Year Required Courses

201. Chemical Pharmacology.—Includes tests for plant constituents and important drugs, the principles of pharmacy and prescription writing, general toxicology, the physical and chemical basis of pharmacology, excretion, antiseptics, methods of administering drugs, and reactions with tissues and unicellular organisms. The work consists of laboratory exercises, demonstrations, class conferences, and lectures.

Spring quarter (first five weeks) (Hanzlik, De Eds, Tainter)
20 hours, didactic; 45 hours, laboratory; total, 65 hours
Didactic, TTh 9:30–10:30, W 10:30–11:30, F 8:30–9:30; Lab. MWF 1:30–4:30
spring, 34

202. Experimental Pharmacodynamics.—Consists of demonstrations and experiments on amphibia and mammals, illustrating the action of drugs and methods of pharmacological experimentation. Demonstrations by the instructor of the more difficult and complex experiments are given at each session before the classwork begins, and the results are discussed and systematized in class conferences, different methods of attaining the same or related objects being explained and practical applications indicated. The work of Courses 201 and 202 is fundamental and prerequisite to the other courses of the department.

Spring quarter (last 5⅔ weeks of sixth quarter) (Hanzlik, De Eds, Tainter)
22 hours, conferences; 51 hours, laboratory; total, 73 hours
Lab. MWF 1:30–4:30; conferences, TTh 9:30–10:30, W 10:30–11:30, F 8:30–9:30
spring, 34

Third-Year Required Courses

203. Systematic Pharmacology.—This is the principal didactic course of the department. Instruction is given by lectures, demonstrations, and recitations, and treats of the experimental basis, toxicity, and clinical actions, uses, and dosage of the more important drugs. Description and identification of these drugs studied outside of regular hours.

66 hours, autumn and winter quarters
(Hanzlik) M 1:30–2:30, W 9:30–10:30, F 11:30–12:30
winter, 29

204. General Therapeutics.—A systematic presentation of the uses of drugs and other agents from the standpoint of diseases, and consists of lectures, recitations, and class drills in prescription writing.

44 hours, spring quarter (Lee) MTThF 1:30–2:30
spring, 26

Optional Course

205. Research in Pharmacology and Therapeutics.—Open throughout the year to students for thesis and to graduates with proper qualifications and special interest in these subjects. Work in pharmacology proper may be done independently or under supervision in the department; in

clinical pharmacology and therapeutics by collaboration with the clinical department selected (provided, of course, that permission is obtained from the clinical department), the work being designed to cover actual observation of patients and ward visits with clinical instructors. For students, not less than 6 hours per week.

206. Journal Club.—One hour weekly during the summer, autumn, and winter quarters for presentation and discussion of oral and written reports on literature pertaining to pharmacology, etc.

IX. PHYSIOLOGY

Ernest Gale Martin, Professor.
Frank Walter Weymouth, Associate Professor.
James Percy Baumberger, James Rollin Slonaker, Assistant Professors.
George Daniel Shafer, Instructor.

(See Courses 103, 104, 105, and 207 outlined on pp. 304–305.)

X. SURGERY

Stanley Stillman (Executive), Frank Ellsworth Blaisdell, John Francis Cowan, Leonard Wheeler Ely, Emmett Rixford, Professors.
Leo Eloesser, Philip Kingsnorth Gilman, Albert Brown McKee, Rufus Lee Rigdon, Edward Cecil Sewall, Clinical Professors
John Adolph Bacher, Harrington Bidwell Graham, Harry Leslie Langnecker, Harvard Young McNaught, Caroline B. Palmer, Associate Clinical Professors.
Edward B. Towne, Assistant Professor.
Hans Barkan, John Robert Burrows, Edmund Butler, James Root Dillon, Arthur L. Fisher, Sylvan L. Haas, Assistant Clinical Professors.
Rea Ernest Ashley, Otto Barkan, Harold Augustus Fletcher, J. Walter Jones, Merton James Price, Lloyd Robinson Reynolds, Wilbur Swett, Chester Howard Woolsey, Clinical Instructors.
Sigurd von Christierson, Harold John Cooper, Hubert W. Dudley, Ehler Eiskamp, Gordon E. Helsley, William C. Hobby, J. Herman Kirk, Edgar C. Lee, Robert A. Ostroff, Lorruli Anna Rethwilm, August Henry Rosburg, Edward Salomon, John Philip Strickler, Frederick L. Wright, Assistants.
George W. Hartman, Henry A. L. Ryfkogel, Alfred Jack Zobel, Lecturers.
Fred W. Callison, Hiram B. Duncan, Assistant Lecturers.

Divisions

Ophthalmology Genito-Urinary Diseases Orthopedic Surgery
Otology, Rhinology, and Laryngology

The general plan of instruction is as follows:

In the Department of Surgery instruction commences in the sixth quarter in the Medical School in San Francisco, the course in Principles

of Surgery (Surgery 201) being a prerequisite to all of the courses in this department.

On completion of Courses 201, 202, 203, and after satisfactory examination, students are admitted to third-year standing; to fourth-year standing after having completed Courses 204, 205, 206, 207, 208, 209, 210, with satisfactory examinations passed in the same; to fifth-year medical standing after having completed Courses 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, with satisfactory examinations passed in the same.

Courses for Second-Year Medical Students

201. Principles of Surgery.—Recitations, demonstrations, and laboratory work, utilizing clinical and pathological material from the out-patient clinics and Lane Hospital, with preparations from the museum and laboratory of Surgical Pathology.

3½ hours (38 hours), spring quarter
(Towne) (R 506 and Surgical Clinic) MW 11:30–12:30; F 11–12:30
spring, 33

202. Fractures and Dislocations.—Recitations, study of X-Ray plates and demonstrations of fractures and dislocations, all the important ones being produced on the cadaver and subsequently demonstrated by dissection.

2 hours (22 hours), spring quarter
(Blaisdell) (Anatomical Amphitheater) W 8:30–10:30
spring, 33

203. Surgical Diseases of Extremities.

1 hour ((11 hours), spring quarter
(Cowan) (R 506 and Surgical Clinic) T 11:30–12:30
spring, 33

For Third-Year Medical Students

204. Surgical Diseases of the Abdomen.

2 hours (32 hours) winter (second half) and spring quarter
(Stillman or Cowan) (Lane Hall) TTh 4–5
spring, 26

205. Surgical Diseases of Head, Neck, and Thorax.

2 hours (32 hours), autumn and one-half of winter quarter
(Rixford, Towne) (Lane Hall) TTh 4:30–5:30
autumn, 28

(For Courses 206 and 207, the third-year class will be divided into two sections, one of which will meet at the Men's Surgical Ward, and one in the Surgical Out-Patient Clinic alternately.)

206. Surgical Clinic: Dispensary.

1 hour (33 hours), autumn, winter, and spring quarters
(Stillman) (Out-Patient Clinic) TTh 10:30–11:30
autumn, 29; winter, 29; spring, 26

207. Surgical Wards: Lane Hospital.

1 hour (33 hours), autumn, winter and spring quarters
(Towne) TTh 10:30–11:30
autumn, 20; winter, 29; spring, 26

208. Set Clinic: Surgical Amphitheater.

1 hour (22 hours), winter, and spring quarters
(Stillman, Cowan, or Gilman) Th 11:30–12:30
winter, 28; spring, 26

Anæsthetics:—In connection with the clinical work students are assigned in rotation, so that each one shall administer 10 anæsthetics under the supervision of Dr. Caroline Palmer or Dr. John Burrows, Anæsthetists to Lane Hospital. Dr. Palmer also gives a course of three lectures on the administration of anæsthetics.
3 hours, autumn quarter — first three Thursdays, 11:30–12:30

209. General Surgical Pathology and Tumors: Surgical Laboratory.
3 hours (66 hours), autumn and spring quarters
(Cowan, Ely, Towne) (R 506) TTh 2:30–4
autumn, 29; spring, 26

210. Introductory Course in Orthopedic Surgery.
2 hours (22 hours), winter quarter
(Ely, Langnecker) (Lane Hall) M 3:30–4:30, F 1:30–2:30
winter, 29

For Fourth-Year Medical Students

(For morning work the fourth-year class is divided into two sections, one of which attends the San Francisco Hospital, the other, the Lane Hospital.)

211. Surgical Clinic: Surgical Amphitheater.
1 hour (16 hours) (Cowan or Gilman) S 8:30–9:30
autumn, 15; spring, 13

212. Set Clinic: Surgical Amphitheater.
1 hour (16 hours) (Stillman, Cowan, or Gilman) Th 11:30–12:30
autumn, 15; spring, 13

213. Out-Patient Clinics: Dispensary.
1 hour (16 hours) (Cowan, Gilman) MW 10:30–11:30
autumn, 15; spring, 13

214. Wards of Lane Hospital.
1 hour (16 hours) (Cowan, Gilman) MW 10:30–11:30
autumn, 15; spring, 13

215. San Francisco Hospital.—Ward Clinics and Set Clinic.
4 hours for 8 weeks (32 hours), ward clinic
(Rixford, Eloesser) MTWF 8:30–9:30
2 hours for 16 weeks (32 hours), set clinic (Rixford, Eloesser) Th 9–11
autumn, 14; spring, 14

216. Surgical Anatomy and Operative Surgery: Anatomical Amphitheater.
2 hours (22 hours), autumn quarter (Blaisdell) TTh 3:30–4:30
autumn, 28

217. Orthopedic Surgery: Dispensary and Surgical Amphitheater.
3 hours (48 hours) (Ely, Fisher) T 9:30–11, F 11–12:30
autumn, 15; spring, 13

218. Genito-Urinary Surgery: Surgical Amphitheater.
1½ hours (24 hours) (Rigdon) F 8:30–10
autumn, 14; spring, 10
2 hours for 8 weeks (16 hours) (Dillon) (San Francisco Hospital) T 10–12
autumn, 11; spring, 13

218a. Optional Course.
1 hour (22 hours), autumn and winter quarters
(Dillon) (Lectures only) (R 311) F 4:30–5:30
autumn, 12; winter, 7

219. Ophthalmology.
1 hour (33 hours), autumn, winter, and spring quarters
(BARKAN) (Lane Hall) T 1:30–2:30
1 hour (33 hours), autumn, winter, and spring quarters
(MCKEE) (Dispensary) T or Th 2:30–3:30
autumn, 30; winter, 28; spring, 28

220. Otology, Rhinology, and Laryngology.
1 hour (33 hours), autumn, winter and spring quarters
(SEWALL) (R 311) Th 1:30–2:30
1 hour (33 hours), autumn, winter, and spring quarters
(BACHER) (Dispensary) T or WTh 2:30–3:30
autumn, 30; winter, 28; spring, 28

220a. Optional Course.—Limited to four students. Work in the clinic.
summer quarter (MCNAUGHT, BACHER)

221. Emergency Surgery.—Optional. Opportunity is offered to small groups of fourth-year medical students to take work in Emergency Hospitals during the spring quarter two afternoons a week, from 4:00 to 6:30 p. m. Students wishing to take this work should apply to DR. E. BUTLER, the Chief of the Emergency Service, at 135 Stockton Street, San Francisco, and those expecting to interne at the San Francisco Hospital are strongly advised to take this course as preparation for their work.
spring, 17

Special courses may be arranged for limited numbers of graduates in Medicine in the laboratory of Surgical Pathology and in the various Out-Patient Clinics and Hospitals. Such students may register for advanced degrees or as special workers.

A special course in the administration of anæsthetics, covering six months, is offered to a limited number of graduates in Medicine. Fee, $50 (PALMER).

PRE-NURSING CURRICULUM

This curriculum is designed primarily for those who wish to prepare themselves for administrative, teaching, social service, or public health work, and consists of three years' work at Stanford University and two years' at the Stanford School of Nursing, San Francisco, the degrees of Bachelor of Arts and Graduate Nurse being conferred at the close of the five years. The completion of 135 units of University work and acquirement of 135 grade points are necessary for admission to the School of Nursing.

Entrance credit of 2 units in a foreign language, 1 unit in chemistry, and 1 unit in history are presupposed in the following schedule:

FIRST YEAR

AUTUMN QUARTER		WINTER QUARTER		SPRING QUARTER	
Subject	Units	Subject	Units	Subject	Units
Citizenship	4	Citizenship	4	Citizenship	4
Chemistry 7*	2	Chemistry 9	2	Chemistry 4	3
Language	3	Language	3	Language	3
Electives	6	Electives	6	Electives	5

* Students offering no entrance credit in chemistry are required to take Courses 1, 2, 3, and 4 (12 units), instead of 4, 7, and 9 (7 units).

Second Year		
Language or Literature 3	English 2 3	English 2 3
History 3	History 3	History 3
Zoology 1 5	Biology 3** 3	Zoology 106 (Embry.) 5
Electives 4	Electives 4	Electives 6
Third Year		
Physiology 101 5	Physiology 102 5	Bacteriology 1 6
Psychology 51a 3	Psychology 51c 3	Anatomy (Special) 5
Electives 7	Electives 7	Electives 4

Some suggested electives are: Economics 2 (Social Problems)); Economics 22 (Labor Problems); Economics 103 (Care of Dependents); Economics 104 (Problems of Poverty); Economics 116 (Immigration); Education 175 (Education and Modern Social Problems); Entomology 108 (Animal Genetics); Hygiene 1 (Personal Hygiene); Political Science 2 (State and Local Governments); Political Science 112 (Municipal Administration); Psychology 55 (Experimental Psychology); Public Speaking 4 (Vocal Expression); Public Speaking 5 (Reading Aloud); Law 1 (Introductory Course).

Graduates of schools of nursing affiliated with an institution of collegiate rank may be granted, on recommendation of the Pre-Nursing Committee, a maximum advanced credit of forty-five units, provided they have also fulfilled the requirements of graduation and recommendation from an accredited high school.

Graduates of accredited schools of nursing not affiliated with an institution of collegiate rank should have, in addition to the high school requirements, one year of successful administrative or educational experience.

For students entering with advanced standing a minimum of 45 units of resident work at Stanford University is required. While this minimum of 45 units usually presupposes a residence of three University quarters, the completion of the collegiate part of the Pre-Nursing Course in this minimum of time is possible only for those students who have fulfilled the requirements of the first six quarters, including the Lower Division requirements.

Students intending to take this work should confer with Professor C. S. Stoltenberg, Stanford University, or with Professor Maude Landis, Stanford Hospital, San Francisco.

MEMORIAL CHURCH

David Charles Gardner, Chaplain.
Warren D. Allen, Organist.

Memorial Church stands in the center of the inner quadrangle group, facing the main entrance. It is of modified Moorish-Romanesque architecture in the form of a cross with rounded ends. The extreme length is one hundred and ninety feet, the extreme width, one hundred and fifty feet. Exteriorly the finish is similar to that of the other quad-

** Students having entrance credit in a biological science may omit Biology 3.

rangle buildings except for the mosaics of the façade, the central feature being a striking representation of the Sermon on the Mount. Interiorly the walls are buff sandstone, with tooled face, relieved by elaborate carved designs and mosaics of great beauty. The features of the apse are the marble altar, the stained glass windows representing the Nativity, the Crucifixion, and the Ascension, and the mosaics covering the wall surface. Behind the altar is a replica of "The Last Supper," by Cosimo Roselli, in the Sistine Chapel at Rome. To the right and left, running to the arch of the apse, are long panels—a *gloria dei angeli* surmounted by reproductions in mosaic of Michelangelo's "Prophets." The cove ceiling is also done in mosaics representing angels with trumpets. The nineteen stained glass windows of nave, transept, and apse illustrate the Life of Christ. The windows of the clerestory contain single figures of Old and New Testament characters, and the mosaics depict mostly Old Testament scenes. The seating capacity of the church, including galleries, is about seventeen hundred.

Memorial Church, though unsectarian and without formal organization, is linked to historic Christianity by its ministry and sacraments, the great principles of Christian worship being conserved in its informal and varied services.

SERVICES

Daily Chapel, with address, 7:50 a. m.
Sunday, Divine Worship and Sermon, 11 a. m. (Holy Communion as announced.)

ORGAN RECITALS

Sunday, 4:00 p. m.; Tuesday and Thursday, 4:15 p. m.

MILITARY SCIENCE AND TACTICS

WILLIAM D. GEARY, Major Field Artillery, Professor.
CHARLES E. BOYLE, Captain Field Artillery; HAROLD A. COONEY, Lieutenant Field Artillery, Assistant Professors.

A field artillery unit of the Reserve Officers Training Corps is maintained for the purpose of fitting students to become reserve field artillery officers while they are taking their regular college courses, thus enabling them, if called into active service during a national emergency, to perform at the best the military duties for which their capabilities and training as college graduates fit them in the service of their country.

The course is planned to cover a period of four academic years, and any student electing it is expected to do so with the idea of completing the first two years' basic course and, if possible, the last two years' advanced course when, upon its satisfactory completion, he will accept from the President of the United States a commission as second lieutenant of Field Artillery in the Officers Reserve Corps. If the college course is completed in three years, the commission may be awarded at that time. The obligation to complete the basic course may be canceled for good and sufficient reasons approved by the head of the department and the President of the University. The advanced course is open to selected students who satisfactorily complete the basic course. They are

required to attend one summer instruction camp of six weeks' duration, normally at the end of the first year of the advanced course. Credit is given for R. O. T. C. work taken at other institutions.

All students enrolled in the R. O. T. C. are furnished uniforms and equipment without cost to themselves. While attending the summer instruction camp the Government defrays all expenses, including food, clothing, and mileage at the rate of five cents per mile to and from camp. It is a period of interesting and instructive work with the physical and moral development of the student well provided for and, in addition, is valuable in its broadening effect on the student, who is associating with men from other leading American universities. Men taking the advanced course receive in addition to the above, commutation of subsistence at the rate of $9 per month for two years and pay while at the required camp. (Five units of credit are given for satisfactory completion of the camp.)

The United States Government places at the disposal of the University for instruction purposes the necessary number of horses, horse equipment, personal equipment, 3-inch battery, one gun of each of the other types used by field artillery, fire control and reconnaissance instruments, motor equipment including caterpillar tractors, trucks, and motorcycles.

Field Artillery Course

FIRST YEAR BASIC—FRESHMAN

10. Fundamentals of Military Science.—(3 hours per week.) Organization and administration of a battery; military hygiene; first aid and sanitation; customs of the service; military courtesy and discipline; morale; psychology of handling men and of leadership; standing gun drill; school of the soldier; squad and battery dismounted.

1 unit, autumn and *summer quarters (Cooney, Pettigrew)
autumn, 36; summer, 2

(This course with the other practical courses, viz., 11, 12, 21, 23, 25, and 4*p*, fulfills the college requirement of six courses of military or physical training.)

11. Topography and Communications.—(3 hours per week.)

Topography.—Military maps and mapping: theory, practice, reading, conventional signs, distances, direction, scales, elevation, contours, ground forms, road sketches, road reports; position, panoramic and place sketches.

Communications.—Means of transmitting information; theory of telephones; the camp telephone; troubles and tests; the monocord switchboard; line installation and maintenance; artillery net.

1 unit, winter quarter (Cooney)
winter, 40

12. Battery Drill.—(3 hours per week.) Duties of the cannoneer in the firing battery and in mounted drills and maneuvers.

1 unit, spring quarter (Boyle, Cooney)
spring, 37

SECOND YEAR BASIC—SOPHOMORE

20. Matériel.—(3 hours per week.) Guns: types, construction, mechanical principles, principles of design. Field artillery carriages: design,

construction, tools, accessories, equipment, methods of carrying same. Disassembling and assembling various parts of gun material: their care, operation, nomenclature, maintenance, lubrication, cleaning; sights, quadrants, fuze-setters. Fire control instruments: principle of design, nomenclature, operation, adjustments, care. Ammunition: powders, explosives, detonators, primers, projectiles. Fuzes: their description, manufacture, construction, care, and use.

2 units, autumn quarter (GEARY)
autumn, 40

21. Gunnery.—(3 hours per week.) Elements of field artillery gunnery; definitions, the military elements of the trajectory and their calculation, determination of firing data and its use by cannoneers; duties of the cannoneer; care and maintenance of harness and horse equipment; gunners' examination. Students qualifying as expert first-class gunners, first-class gunners and second-class gunners, are entitled to wear the insignia for same for the remainder of the course.

1 unit, autumn quarter (GEARY)
autumn, 44

22. Horses and Stable Management.—(3 hours per week.) The horse: care, conditioning, and training; care and management in the field; forage and animal nutrition; types of artillery horses; breeds and blood lines; shoeing, grooming, stable management, and exercise. Hippology: anatomy, physiology, points, conformation, and age of horse; wounds, simple diseases and their treatment; veterinary medicines; entraining and detraining, care en route.

2 units, winter quarter (BOYLE)
winter, 33

23. Equitation.—(3 hours per week.) Saddling and bridling, adjustments; acquiring a firm seat at all gaits; use of aids.

1 unit, autumn and winter quarters (COONEY)
autumn, 17; winter, 44

24. Motors and Motor Transportation.—(3 hours per week.) Gas engines, motor vehicles, artillery trucks and tractors, theory, mechanical design, construction, operation, nomenclature, care, maintenance, etc.

2 units, spring quarter (COONEY)
spring, 32

25. Driving and Draft.—(3 hours per week.) Battery drills and maneuvers mounted. The corporals are selected from this class.

1 unit, spring quarter (BOYLE, COONEY)
spring, 34

FIRST YEAR ADVANCED—JUNIOR

130. Gunnery: Advanced.—(3 hours per week.) Ballistics, pressures, and velocities; the trajectory and its elements, trajectory problems; accuracy of fire; dispersion; range tables and corrections; shifts (transport) of fire. Time fire; manipulation of the point of burst, the shrapnel cone. Percussion fire: angle of incidence, remaining velocity, ground conditions.

3 units, autumn and *summer quarters (BOYLE, PETTIGREW)
autumn, 23; summer, 2

131. Reconnaissance.—(3 hours per week.) Composition and use of battery, battalion, and regimental special details; reconnaissance, selection and occupation of battery positions; training of scouts and agents; communications in open and in stabilized warfare, laying out the telephone net; battery emplacements; camouflage.
1 unit, autumn quarter (BOYLE)
autumn, 24

132. Firing.—(3 hours per week.) Commands, methods of fire, methods of laying; determination of firing data, principles of fire. Conduct and observation of fire; terrain board, blackboard, sand table, and smoke bomb firing; percussion precision firing and practical use of range tables; lateral observation.
3 units, winter quarter (BOYLE)
winter, 21

133. Conduct of Fire.—(3 hours per week.) Conduct of fire with blackboard, terrain board, smoke bomb, and sub-caliber practice.
1 unit, winter quarter (GEARY)
winter, 26

134. Orientation.—(3 hours per week.) Methods of intersection, resection, and traverse; projections; Lambert system of grids; coördinates; control sheets; azimuths; orienting line; laying guns on base line; laying guns with a declinated instrument; visibility; dead space; position chart.
3 units, spring quarter (BOYLE)
spring, 19

135. Driving and Draft.—(3 hours per week.) Battery drills and maneuvers, mounted. The sergeants are selected from this class.
1 unit, spring quarter (BOYLE, COONEY)
spring, 21

SECOND YEAR ADVANCED—SENIOR

140. Military History and Policy of the United States.—(3 hours per week.) A critical study of our military policy, with a military survey of the most important campaigns and battles of the United States (including the World War). Military operations and strategy. This course is given by the History Department as "History 74."
3 units, autumn quarter (BEACH)
autumn, 25

141. Practical Instruction.—(3 hours per week.) Acting as assistant instructors for first-year students in Course 10. Pistol and machine gun practice.
1 unit, autumn quarter (COONEY)
autumn, 13

142. Military Law.—(3 hours per week.) History, authority, sources; procedure of courts-martial; rules of land warfare; military government; armistices, conventions, treaties.
3 units, winter quarter (GEARY)
spring, 21

143. Practical Instruction.—(3 hours per week.) Training as instructors in equitation.
1 unit, winter quarter (BOYLE)
winter, 11

144. Organization and Tactics.—(3 hours per week.) Fundamentals of the organization and tactics of the army and its various arms and elements; field artillery organization, tactics, operations, employment, information, ammunition supply; functions of various calibers of field artillery and principles involving the type used; divisional, corps, and army artillery and functions of each; staff organizations, functions and duties; field service regulations, field orders, logistics; map maneuvers.
3 units, spring quarter (GEARY)
winter, 25

145. Practical Instruction.—(3 hours per week.) Battery drills and maneuvers, mounted. The cadet officers are selected from this class.
1 unit, spring quarter (BOYLE, COONEY)

4p. Polo.—(3 hours per week.) Open to all students who have completed Course 23.
1 unit, autumn, winter, and spring quarters (BOYLE)
autumn, 18; winter, 23; spring, 25

SUMMER COURSES

(Summer courses are given by arrangement.)

MINING AND METALLURGY

THEODORE JESSE HOOVER, JAMES MACDONALD HYDE, Professors.
WELTON JOSEPH CROOK, †WALDEMAR FENN DIETRICH, FREDERICK GEORGE TICKELL, Associate Professors.
ROY PARMELEE MCLAUGHLIN, LOUIS DAVID MILLS, HARRY WHEELER MORSE, Lecturers.

The Department of Mining and Metallurgy provides (*a*) a four-year pre-mining course leading to the degree of Bachelor of Arts; and (*b*) a two-year post-graduate course in mining, metallurgy, or petroleum, leading to the degree of Engineer.

I. ADMISSION TO THE PRE-MINING DEPARTMENT

The entrance requirements are those defined by the University for admission to the Lower Division.

II. PRE-MINING CURRICULUM LOWER DIVISION

Students intending to make mining, metallurgical, or petroleum engineering a profession register in the Lower Division and complete two full years' work comprising the following curriculum:

FRESHMAN YEAR

AUTUMN QUARTER		WINTER QUARTER		SPRING QUARTER	
Applied Math. 1*a*	5	Applied Math. 1*b*	5	Applied Math. 2*a*	5
Chemistry 7	2	Chemistry 9	2	Chemistry 4	3
Citizenship 1	4	Citizenship 2	4	Citizenship 3	4
Language	3	Language	3	Language	3
Engineering 1	1	Engineering 2	1		
Total	15	Total	15	Total	15

SOPHOMORE YEAR

Applied Math. 2*b*	5	Geology 103	3	Chemistry 20	6
History	3	History	3	History	3
English 2	3	Engineering 3	4	English 2	3
Geology 1*a*	5	Geology 142	4	Geology 143	4
		Mining and Met. 1	1		
Total	16	Total	15	Total	16

III. PRE-MINING CURRICULUM UPPER DIVISION

Upon completion of the Lower Division work students register in the Department of Mining and Metallurgy and complete the following pre-mining curriculum. Special students are not admitted to registration in this department. It will be noticed that in the spring quarter of the junior year a definite line of differentiation is made in the courses of study in mining, metallurgical, and petroleum engineering respectively. Students who do not desire to choose a definite line of work as early as the spring quarter of the junior year are advised to take the courses listed under the head of Mining. These courses are arranged so that there is room for a limited amount of elective work, for which it is recommended that such courses as Economics 3, 10, and 20, Engineering 106 and 110, M. E. 121, E. E. 102, 122, 103, 123, Chemistry 101, and Mineralogy 225, be chosen.

†Absent on leave, 1923–24.

JUNIOR YEAR

AUTUMN QUARTER		WINTER QUARTER	
Geology 121	4	Physics-Statics 11	1
Civil Engineering 20	5	Applied Mathematics 3*a*	5
Mining and Metallurgy 105	3	Chemistry 111, 112	5
Electives	3	Electives	4
Total	15	Total	15

SPRING QUARTER

Mining		Metallurgy		Petroleum	
Physics-Dynamics 12	1	Physics-Dynamics 12	1	Physics-Dynamics 12	1
Physics-Heat 13	4	Physics-Heat 13	4	Physics-Heat 13	4
Applied Math. 3*b*	5	Applied Math. 3*b*	5	Applied Math. 3*b*	5
Geology 163	4	Mech. Engineering 12	3	Mech. Engineering 12	3
Elective	1	Chemistry 153	3	Electives	2
Total	15	Total	16	Total	15

SUMMER QUARTER

Geology 108	8			Geology 108	8
Geology 109	7	(None in Metallurgy)		Geology 109	7
Total	15			Total	15

SENIOR YEAR

AUTUMN QUARTER

Physics-Electricity 14	4	Min. & Met. 101	4	Physics-Electricity 14	4
Min. & Met. 101	4	Chemistry 101	5	Min. & Met. 101	4
Mech. Eng. 11 or 12	3	Mech. Eng. 121	3	Geology 144	2
Electives	4	Electives	3	Electives	5
Total	15	Total	15	Total	15

	WINTER QUARTER	
Physics-Light 10 2	Physics-Light 10 2	Physics-Light 10 2
Min. & Met. 102..... 5	Min. & Met. 102 5	Min. & Met. 103..... 3
Min. & Met. 103 3	Min. & Met. 106 5	Mech. Engineering 122.. 3
Min. & Met. 106 5	Electives 3	Chemistry 127 5
		Geology 145 2
Total 15	Total 15	Total 15
	SPRING QUARTER	
	Geology 163 4	
	Physics-Electricity 14.... 4	
	Electives 7	
(None in Mining))	Total 15	(None in Petroleum)

IV. Pre-Mining Degree

Students who complete the above four-year pre-mining curriculum in a satisfactory manner are granted the degree of Bachelor of Arts.

V. Pre-Mining Courses

The only courses given to undergraduates in this department are the seven described as follows:

1. History of Mining.—Lectures. A general survey of the metal supply of peoples and its effects on their progress in the arts, science, and culture; relation of mining and metallurgy to other industries and to civilization. No prerequisite.

1 unit, winter quarter (Hoover) T 9

101. Principles of Mining.—Lectures. Covering the whole subject, giving a comprehensive view of the industry and serving as an outline for the orderly development of professional studies; prospecting; development; equipment; operation. Prerequisite: Geology 1*a*.

4 units, autumn quarter (Dietrich, Hoover, Crook) MTWTh 10
autumn, 18

102. Principles of Metallurgy.—Lectures. Elementary discussion of broad principles of ore dressing and metallurgical operations. Preparatory to more detailed treatment in later courses; crushing, classification, concentration, hydrometallurgy, pyrometallurgy. Prerequisites: Chemistry 20, Geology 121, or Chemistry 101.

5 units, winter quarter (Hyde) MTWThF 10
winter, 12

103. Principles of Petroleum Mining.—Lectures. Covers the whole subject of petroleum mining, giving the student a comprehensive view of the industry, and serves as an outline for the orderly development of professional studies. Properties, origin, accumulation, and occurrence of petroleum; valuation, development, production, storage, transportation, refining, and utilization. Prerequisites: Geology 1*a*, 142, and 143.

3 units, winter quarter (Tickell) MWF 9
winter, 15

104. Mine Rescue and First Aid.—Laboratory. In coöperation with the U. S. Bureau of Mines. No prerequisite.

1 unit, spring quarter (Dietrich) [By arrangement]
spring, 14

105. Pyrometallurgy, Iron and Steel.—Lectures. The principles, practice, and cost of producing iron and steel; theory and practice of heat treatment; introduction to metallography of steel; theory, use, and production of alloy steels; non-ferrous metals and alloys in engineering construction. Prerequisites: Chemistry 7, 9, and 4.
3 units, autumn quarter (Crook) MWF 8
autumn, 106

106. Assaying.—Laboratory and Lectures. Determination of gold and silver in ores and metallurgical products. Prerequisites: Chemistry 111 and 112, Geology 121.
5 units, winter quarter (Hyde, Crook) MTWThF 1:05
winter, 10

VI. Graduate Division

Students who have completed the four-year pre-mining curriculum as above outlined and have received the degree of Bachelor of Arts from the University (or have had degrees and adequate training at some other university, which in the opinion of the faculty, is equivalent thereto) are admitted, upon passing a satisfactory examination, as candidates for the degree of Engineer. Two years' residence in the University and ninety units of approved work, of which at least forty-five units must be selected from the following graduate courses, together with the presentation of a suitable thesis, complete the requirements for the degree.

VII. Graduate Courses

These courses are open to graduate students in any department in the University, with some concessions in prerequisites possible for those who are not candidates for the degree of Engineer in Mining and Metallurgy. None of the courses is open to Undergraduate students. The subjects are as follows:

Economics of Mining

201. Mine Valuation.—Lectures and Problem. General considerations; sampling and measurement; widths and volumes; economic geology; analysis of cost; price of metals; smelter contracts; amortization and depreciation; reserves; reports. Prerequisites: Mining 101 and either 102 or 103.
2 units, autumn quarter (Hoover) Th 10
autumn, 10

202. Mine Organization.—Lectures. The mining company; forms of business; frauds; selling mines; shares; balance sheet; profits; valuation; taxes; law. Prerequisite: Mining 201.
1 unit, winter quarter (Hoover) Th 9
winter, 12

203. Mine Management.—Lectures. Organization and discipline of staff; technical committees, consulting engineers, managing directors, general managers; business principles and scientific management; vocational and technical training; personal qualities and efficiency; organization and discipline of labor; reports; supplies and material; cost and accounts. Prerequisite: Mining 202.
1 unit, spring quarter (Hoover) Th 9
spring, 12

204. Valuation, Organization, Management.—Seminar and Problems. Analysis of data and elaboration of schemes of operation. Prerequisite: Mining 203.
1 unit, spring quarter (HOOVER) [By arrangement]

205. Research and Thesis.—Original study of some problem in the economics of mining, metallurgy, or petroleum.
5 units, autumn, winter, and spring quarters (HOOVER) [By arrangement]
winter, 2

MINING

211. Prospecting and Development.—Seminar and Problems. The prospector; geological aspects; placer prospecting, prospecting for deposits in place, with methods and costs; engineering features; boring methods; development plans; methods and costs of shaft sinking, drifting, and raising; engineering records. Prerequisites: Mining 101 and either 102 or 103.
5 units, autumn quarter (DIETRICH) [Not given in 1923–24]

212. Surface Equipment.—Lectures and Problems. The economics and mechanics of surface equipment, including power, compressors, explosives, drills, roads, railroads, tramways, materials for structures, bins. Prerequisites: Mining 101, Physics 14, Engineering 110.
3 units, winter quarter (DIETRICH, CROOK) TTh 11, Th 1:05

213. Underground Equipment.—Lectures and Problems. The economics and mechanics of power, hoisting, haulage, drainage, and pumping, ventilation, illumination. Prerequisite: Mining 212.
3 units, spring quarter (DIETRICH, CROOK) TTh 11
spring, 4

214. Surface Operations.—Seminar and Problems. The methods and costs of open-pit and placer mining. Prerequisite: Mining 211.
5 units, winter quarter (DIETRICH) [Not given in 1923–24]

215. Underground Operations.—Seminar and Problems. The methods and costs of underground mining. Prerequisite: Mining 214.
5 units, spring quarter (DIETRICH) [Not given in 1923–24]

216. Mine Engineering.—Seminar and Problems. Special advanced work in mining engineering; considerable experience in the field being a desirable prerequisite. The necessary prerequisites: Courses 211–215 inclusive.
2 to 5 units, winter and spring quarters (DIETRICH) [Not given in 1923–24]

217. Mining Research and Thesis.—Original study of some problem in mining engineering.
5 units, autumn, winter, and spring quarters (HOOVER, DIETRICH)
autumn, 2; winter, 1

METALLURGY

221. Crushing, Sizing and Classification of Ores.—Lectures. Mechanical preparation of ores for concentration or hydrometallurgical treatment; principles, practice, and cost of crushing, pulverizing, sizing, with hydraulic classification of ores, transportation of pulp throughout the plant, and thickening of pulps. Prerequisite: Mining 102.
2 units, autumn quarter (HYDE) Th 9
autumn, 7

222. Concentration Processes.—Lectures. The principles, practice, and cost of the concentration of metalliferous minerals from ores. Prerequisite: Mining 221.
2 units, winter quarter (HYDE) MW 11
winter, 4

223. Ore Dressing.—Laboratory. Mechanical testing by laboratory methods to determine best method of ore dressing. To accompany Course 213. Prerequisites: Mining 102 and 221.
2 to 5 units, winter quarter (HYDE) [By arrangement]
winter, 4; spring, 1

224. Hydrometallurgy, Gold and Silver.—Lectures. The principles, practice, and cost of treating ores by amalgamation, cyanidation, chlorination, and lixiviation processes. Prerequisite: Mining 221.
3 units, autumn quarter (HYDE, MILLS) MWF 9
autumn, 4

225. Hydrometallurgy, Copper, Lead, and Zinc.—Lectures. The principles, practice and cost of recovering copper, lead, and zinc from ores by hydrometallurgical processes. Prerequisite: Mining 221.
3 units, spring quarter (HYDE, MORSE) MWF 10
spring, 6

226. Hydrometallurgy.—Laboratory. Study of hydrometallurgical problems. To accompany Courses 224 and 225.
2 to 5 units, autumn and spring quarters (HYDE) [By arrangement]
autumn, 2; spring, 1

227. Metallurgical Machinery.—Seminar and Problems. Design of an ore treatment plant. Prerequisite: Mining 226.
2 units, winter and spring quarters (HYDE) [By arrangement]

228. Pyrometallurgy, Copper, Lead, and Zinc.—Lectures. The principles, practice, and cost of recovering copper, lead, and zinc from ores by pyrometallurgical methods; details of smelter operations; the physical chemistry of metallurgical operations. Prerequisite: Mining 102.
3 units, spring quarter (CROOK) TTh 8
spring, 1

229. Pyrometallurgy.—Laboratory. Experiments illustrating the principles of oxidizing, sulphating, and chloridizing roasting, desilverization of base bullion, formation of slags, fusibility of refractories, heat treatment of steel, with checking of results by pyrometry and chemical analysis. Prerequisite: Mining 228.
2 units, autumn quarter (HYDE, CROOK) [By arrangement]

230. Electrometallurgy.—Lecture and laboratory. Review of electrochemistry as applied to electro-deposition of metals; principles and practice of electrolytic refining. The principles, practice, and cost of electric furnace work. Prerequisites: Mining 225, 228, and 234.
3 to 5 units, winter quarter (CROOK, MORSE) MW 8
winter, 4

231. Metallography.—Laboratory and lectures. Study of the properties and microstructure of metals and alloys; technique of metallographic investigation and microphotography. Prerequisites: Mining 102 and 105.
3 units, winter quarter (CROOK) T 8, MT 1:05
winter, 5

232. Pyrometry.—Laboratory and lectures. Determination of high temperature and calibration of pyrometrical instruments. Prerequisites: Mining 102 and 105.
3 units, winter quarter (Crook) Th 8
winter, 5

233. Metallurgical Calculations.—Seminar and lectures. Calculation of problems involving physical chemistry as applied to igneous and hydrometallurgy; calculation of efficiency of processes and furnace operations. Blast furnace charge calculations, etc. Prerequisites: Mining 225 and 228.
3 units, autumn quarter (Crook) T 8
autumn, 5

234. Metallurgical Analysis: Ores.—Laboratory. Rapid methods for quantitative determination of constituents of non-ferrous ores and metallurgical by-products. Prerequisite: Chemistry *f*, Mining 102.
3 or 4 units, autumn quarter (Dietrich, Crook) MTW 1:05
autumn, 6

235. Metallurgical Analysis: Metals and Alloys.—Laboratory. Rapid methods for quantitative determination of constituents of metals and alloys, ferrous metallurgical products, and raw materials. Prerequisites: 105 and 234.
3 units, spring quarter (Crook) [By arrangement]
spring, 4

236. Metallurgical Research and Thesis.—Original study of some problem in metallurgical engineering.
5 units, autumn, winter, and spring quarters (Hoover, Hyde, Crook)
autumn, 1; winter, 1

PETROLEUM

241. Petroleum Engineering.—Lectures. A course in the application of engineering principles to the solution of underground problems; construction of graphic logs and sections, correlation of strata, study of water problems. Prerequisite: Mining 103.
3 units, autumn quarter (Tickell, McLaughlin) MWF 11
autumn, 13

242. Oil Well Water Analysis.—Laboratory. Rapid methods for the volumetric analysis of oil well waters. Prerequisites: Chemistry *f* or *g*, Mining 241.
2 units, winter quarter (Tickell) MT 1
winter, 2

243. Oil Field Development.—Lectures. Dealing with the equipment and methods used in drilling oil wells. Prerequisite: Mining 103.
2 units, autumn quarter (Tickell) TTh 11
autumn, 7

244. Production of Oil.—Lectures. The production of oil, control of wells, pumping methods, operations, dehydration. Prerequisite: Mining 243.
2 units, spring quarter (Tickell) TTh 10
spring, 10

245. Storage and Transportation of Petroleum.—Lectures. Methods of storage and transportation; methods of gauging, design of tanks and pipe-lines, prevention of storage losses, fire hazards. Prerequisite: Mining 241.
2 units, winter quarter (TICKELL) TTh 9
winter, 8

246. Petroleum Refining and Utilization.—Lectures. Refined products and their use for fuels, light generation, and for lubrication; the economics of petroleum. Prerequisite: Mining 244.
2 units, spring quarter (TICKELL) TTh 11

247. Oil Land Valuation.—Lectures. The methods used in appraising oil lands; estimation of future production, operating costs, depreciation of material, salvage, value of future profits. Prerequisite: Mining 244.
1 unit, spring quarter (TICKELL) T 9
spring, 11

248. Oil Testing.—Laboratory. Practice in testing crude oil and refined products.
2 units, spring quarter (TICKELL) [By arrangement]
spring, 7

249. Advanced Work in Petroleum Engineering.—Laboratory. Special work in Courses 241 to 248.
2 to 5 units, autumn, winter, and spring quarters (TICKELL) [By arrangement]
autumn, 4; winter, 4; spring, 4

250. Petroleum Research and Thesis.—Original study of some problem in petroleum engineering.
5 units, autumn, winter, and spring quarters (HOOVER, TICKELL)
autumn, 1; winter, 1

MUSIC

WARREN D. ALLEN, Organist and Director of the University Choir.

1. Choir. The choir sings at the morning service each Sunday in Memorial Church, the music consisting of anthem, chant, and hymns. Continuous course until end of the year.
1 unit per quarter Rehearsal Th 7:35
autumn, 39; winter, 52; spring, 53

2. Oratorio. A separate choir, formed for the performance of oratorio and other major choral works.
1 unit per quarter Th 8:15 (extra rehearsals as arranged)
autumn, 36; winter, 43; spring, 38

3. Orchestra.
1 unit per quarter (ALLEN)
autumn, 14; winter, 14

4. University Band.
1 unit per quarter (MARTIN)
autumn, 48; winter, 43; spring, 38

NURSING

MAUDE LANDIS, Professor.
LAURA R. LOGAN (University of Cincinnati), Acting Professor (summer quarter).
SARAH GERTRUDE WHITE, Instructor.

A special five weeks' curriculum, during the first half of the summer quarter, for administrators and instructors in schools of nursing.

The curriculum is arranged for those interested in either or both of these two specializations of Nursing, and is open to all graduates of accredited schools of nursing, who meet the University entrance requirements of graduation from an accredited high school, or carefully considered equivalents.

COURSES OF INSTRUCTION

1. General Psychology (Course 51 in Psychology).—An introductory survey of mental life, presenting the point of view, methods, experimentally attested facts, and general principles of psychology.
2½ units (FEARING) MTWThF 11

2. Experimental Psychology (Course 55 in Psychology).—A beginning laboratory course providing practice in the use of simple psychological apparatus and in the technique of observation and introspection.
1½ units (FEARING) TTh 1:05–4:05; W 1:05–2:05

3. Administration in Schools of Nursing.—This course is designed to prepare graduate nurses with educational and professional qualifications and experience for administrative and teaching positions in schools of nursing; to give knowledge as to the requirements for these positions and how to meet them, with information concerning the modern trend in nursing education and the relationship of the school of Nursing to the hospital as a health center. Required text: Report of the Rockefeller Committee on Nursing and Nursing Education. Five lectures per week.
3½ units (LOGAN) MTWThF 8–9:30
summer, 10

4. Teaching Nursing Principles and Methods.—Organization and presentation of subject-matter to student nurses:

(1) Anatomy and Physiology; (2) Bacteriology; (3) Chemistry; (4) History of Nursing; (5) Solutions and Elementary Materia Medica. A lecture and laboratory course. A part of this course is given at Stanford Hospital, San Francisco, the dates for these meetings to be announced beforehand in class.

Some reference books used are: Kimber and Gray, *Anatomy and Physiology;* Burton and Opitz, *Physiology;* Smeeton, *Bacteriology for Nurses;* Broadhurst, *Home and Community Hygiene;* McPherson and Henderson, *Elementary Chemistry;* Williams, *Personal Hygiene.*
4 units (WHITE) MTWTh 1:30–3; (Stanford Hospital) F 2–3:30
summer, 12

5. Administration in Small Hospitals.—Intended for graduate nurses holding administrative positions in small hospitals where departmental

responsibilities are interdependent, and for young graduates who wish to consider institutional positions. Small hospitals in California and throughout the country being in the majority, with problems quite different from those of larger institutions, the course is designed especially to consider the organization, administration, and advantages of the small hospital. (The course will not be given unless 10 students enroll.) Assigned readings.

4 units (Landis) MTWTh 1:30–3; (Stanford Hospital) F 2–3:30

PHILOSOPHY

Henry Waldgrave Stuart, Professor.
Frank Chapman Sharp (University of Wisconsin), Acting Professor (Summer Quarter).
Harold Chapman Brown, Associate Professor.

Besides affording an adequate preparation for advanced studies in Philosophy, the requirements for an undergraduate course in this department leave opportunity for all the usual elements of a general or liberal education. Major students are required to present for the Bachelor's degree 35 units in Philosophy—in which Courses 1, 2, 100, 101, and 200 (see *Announcement of Courses*) must be included—and also the general courses in Psychology and in Medieval and Modern European History or English History (which should be taken during the first two years in the University). The second-year courses in French or German are recommended as part of the Lower Division work of prospective major students. Each is expected to devote sufficient time to a minor subject to gain a substantial knowledge of some one of its divisions or aspects.

The department enrolls students for one year of graduate work leading to the degree of Master of Arts or to a minor for the degree of Doctor of Philosophy. The philosophical section of the general library contains at present (1) upward of twenty complete sets of the leading philosophical journals, for most of which current subscriptions are carried; (2) the best available editions of the works of the principal philosophers; and (3) an extensive and constantly increasing collection of standard and contemporary literature—historical, critical, and constructive—covering the various fields of philosophical study.

Elementary

1. Logic.—The principles of Deductive and Inductive Logic, with special attention to the important types of fallacy. Open to all students.

5 units, autumn quarter (Stuart) MTWThF 9
5 units, summer quarter (Brown) MTWThF 9
autumn, 95; summer, 40

2. Ethics.—A short survey of the morality of primitive peoples as compared with more developed forms of morality; the working principles of good conduct; the important historic theories as to the ethical criterion. Prerequisite: second-year standing.

4 units, autumn quarter (Stuart) TWThF 8
4 units, summer quarter (Sharp) TWThF 10
autumn, 64; summer, 23

3. Modern Scientific Conceptions of Nature and Mind.—A study of current views of cosmic structure and the place of man and his activities in nature, in the light of recent developments in physical chemistry, evolutionary biology, and psychology. Prerequisite: second-year standing.
4 units (BROWN) [Not given in 1923–24]

4. Esthetics.—The origins and nature of art; its significance for religion, morality, and social life; the rise of art forms; contemporary theories of esthetics. Prerequisite: second-year standing.
5 units, winter quarter (BROWN) TWThF 8
winter, 103

5. Inductive Logic.—Methods of investigation in use in the natural and social sciences, and the cardinal assumptions and principles on which these methods are based—followed by a brief introduction to the field of general philosophy. Prerequisite: Course 1 or an approved equivalent.
4 units, winter quarter (STUART) TWThF 9
winter, 13

INTERMEDIATE

100. History of Philosophy.—The development of philosophical theories from the early Greek period to the end of the eighteenth century, with a brief outline of philosophical movements in the nineteenth century. Attention given throughout to the relations of philosophy with social and political conditions and with science, literature, and religion. Either quarter may be taken without the other.
4 units, autumn and winter quarters (BROWN) TWThF 11
autumn, 65; winter, 62

101. Philosophy of the Nineteenth Century.—French, German, British, and American philosophy will be studied in successive years in relation to the particular national genius and to social and political conditions. Prerequisite: Course 100 or special permission of the instructor for suitably qualified third- or fourth-year students.
4 units (BROWN) [Not given in 1923–24]

102. Introduction to Philosophy.—The aims and uses of philosophical study, the relation of philosophy to other subjects, and how the problems of philosophy arise in the ordinary course of our experience. A review of the more important answers offered. Prerequisites: Courses 2, 3, or 5.
4 units, winter quarter (STUART) TWThF 10
winter, 21

103. Ethical Principles and Practical Life.—A comparative study of selections from Aristotle, the Stoics, the New Testament, Herbert Spencer, Matthew Arnold, Nietzsche, and Tolstoy. The contemporary historical conditions of various sorts which had influence in forming each type of ethical teaching, and the practical tendencies of each type when applied in actual behavior. Prerequisite: Course 2 or an approved equivalent.
4 units (STUART) [Not given in 1923–24]

104. The Social Order and the Individual.—Insect and animal "societies" and the types of human social organization; social authority and individual initiative; the ethical basis of political obligation; the nature of democracy, aristocracy, and absolutism. Prerequisite: Course 2 or an approved equivalent.
4 units (STUART) [Not given in 1923–24]

105. Religion.—The psychological and social origins of religion; the relations of religion to science, to morality, and to philosophy; the distinctive content and characteristics of the great religions.
4 units, spring quarter (STUART) TWThF 9
spring, 71

106. The History of Intelligence.—The mental processes of primitive peoples; the beginnings of thinking and the ideal of truth; great movements in intellectual progress; contemporary forms of truth-seeking in art, science, and religion. Prerequisite: Course 1, 2, or 3.
4 units, autumn quarter (BROWN) TWThF 10
autumn, 49

110. The Evolution of Morality.—A study of the development of the moral factors in the chief institutions of civilized society and in certain movements of modern life: *e.g.*, property, marriage and the relations of the sexes, the administration of justice, the abolition of class distinctions, and progress in the direction of a world society. The place of these movements in the evolutionary process and the problem of their future direction. Prerequisite: an elementary course in ethics or an approved equivalent.
4 units, summer quarter (SHARP) TWThF 11
summer, 10

ADVANCED AND GRADUATE

(For graduate credit in connection with certain of the preceding intermediate courses, special work is assigned.)

201. The Problems of Contemporary Philosophy.—A constructive discussion of the main problems of general philosophy. Leighton's *Man and the Cosmos* (Appleton, 1922) was used as a text, together with collateral reading. Prerequisites: Courses 100, 101, and 102 or approved equivalent.
4 units, spring quarter (STUART) TWThF 10
4 units, summer quarter (BROWN) TWThF 8
spring, 16; summer, 12

250. Seminar.—Autumn: Present day philosophy in America (STUART). Winter: Broad's *Scientific Thought* (BROWN). Spring: The self in current psychology (STUART). Summer: The philosophy of Hume (BROWN).
autumn, 1; winter, 10; spring, 1; summer, 7

PHYSICAL EDUCATION FOR MEN

WILLIAM HULBERT BARROW, Professor of Physical Education and Medical Adviser, Director of Encina Gymnasium.
HENRY WILFRED MALONEY, Director of Minor Sports and Associate Director of the Department.
ERNST BRANDSTEN, Director of Water Sports and Associate Director of the Department.
GLENN SCOBEY WARNER, Director of Football and Associate Director of the Department
ROBERT LYMAN TEMPLETON, Director of Track and Field.
ERNEST PAUL HUNT, Director of Freshman Sports.
ANDREW KERR, Assistant Director of Football and Director of Basketball.
CHARLES WESLEY DAVIS, Director of Intramural Sports.
HARRY MEIGGS WOLTER, Director of Baseball.
CLAUDE E. THORNHILL, Assistant Coach in Football.
HAROLD MCDONALD DAVIS, Assistant Director of Minor Sports and Director of Tennis.
CHARLES MYRON SPRAGUE, Assistant Director of Intramural Sports.
PAUL HERBERT DAVIS, Graduate Manager of Athletics.
WALLACE DENNY, Trainer.

The Department of Physical Education for Men includes under its jurisdiction all of the recognized athletic activities of the men students of the University, and the work is so graded and arranged that every student, regardless of his ability, is enabled and encouraged to take active part in these activities. With the exception of those who elect military training, enrollment in some chosen specified sport, for three one-hour periods per week, is required of all Lower Division students. Upper Division students who have fulfilled this requirement may enroll in any of the sports or classes, and if they satisfy the requirement in regard to attendance and performance one unit of credit will be given for each quarter they are thus enrolled. A physical examination is required of all men in the first quarter at the University and of all candidates for athletic teams or competition.

In addition to the required work and the intercollegiate and intramural activities, courses in the theory and practice of certain sports will be offered from time to time when practicable. Such courses will combine lectures and required reading with field work and will carry academic credit. There are, however, no courses given for prospective teachers of Physical Education. Courses 1 and 2 listed below will be given each year to afford the opportunity for students to become familiar with certain essentials of personal and community health.

1. Elementary Physiology and Hygiene.—The course is designed for men students in their first year at the University, does not demand any previous knowledge of the subject, and may be applied toward the fulfillment of the Lower Division biological science requirement. There are two lectures a week and prescribed reading. The course is general in character and covers elementary anatomy of the human body and its

normal functioning, cell formation and the differentiation of body tissues, effect of and reaction to disease, personal hygiene and first aid.
2 units, autumn or winter quarter (BARROW) TTh 11
winter, 48

2. Preventive Medicine and General Hygiene.—This course is offered by the department with the assistance of the Department of Bacteriology, and continues into a broader field the work of Course 1. It is open to both men and women students, does not demand any previous knowledge of the subject, and may be applied toward the fulfillment of the Lower Division biological science requirement. It is a lecture course covering the fundamental principles of bacteriology and preventive medicine, with emphasis laid upon contagious disease, the hygiene of food, milk and water supplies, and upon general sanitation. Lectures and reading are supplemented by laboratory demonstrations in elementary bacteriology and in laboratory methods for the examination of food supplies and water. No previous knowledge of the subject is required and the course is open to both men and women students.
3 units, spring quarter (SCHULTZ, BARROW) MWF 8
spring, 150

3. Theory and Practice of Basketball.—Covering the fundamentals and the general principles of the game of basketball, with the different systems used by various coaches reviewed in lectures and prescribed reading. Written reports are required from time to time on supplementary reading of books by standard authorities in regard to the game. The course is offered with the idea of giving a more intimate knowledge of basketball to those who desire it for coaching and other purposes.
2 units, winter quarter (KERR) TTh 10
winter, 38

4. Theory and Practice of Football.—Not intended so much for football players as for men who wish to develop their knowledge of the theoretical side of the game, but given with the same general purposes for the study of football as are outlined for basketball in Course 3.
2 units, spring quarter (KERR) MW 10
spring, 34

5. Theory and Practice of Soccer.—Required reading of standard authorities, reports on such reading, and original work in the nature of discussions of various methods of play constitute the work of the course, with the same general procedure followed as in Courses 3 and 4.
2 units, autumn quarter (MALONEY) TTh 11
autumn, 21

PHYSICAL EDUCATION FOR WOMEN

HELEN MASTERS BUNTING, Assistant Professor, and Director of Physical Education for Women.
CLELIA DUEL MOSHER, Associate Professor of Personal Hygiene, and Medical Adviser of Women.
GRETA JOHANNSEN BRANDSTEN, ISABEL CAPPS, Instructors.
GEORGINA MEYER BURK, Secretary, and Assistant in Instruction.
FORESTA HODGSON, Assistant in Instruction.

The aim of Roble Gymnasium, as a laboratory of personal hygiene, is

to improve the standard of health of the women; to increase their mental and physical efficiency; to foster a spirit of democracy and sportsmanship; and so to prepare for the highest type of citizenship.

Physical Education is required of all Lower Division students, and satisfactory completion of each quarter in Physical Education is essential to promotion to the Upper Division. In general the arrangement will be as follows: one hour of gymnastics per week for each quarter, and two hours per week for one quarter each of dancing, swimming, and an outdoor sport. After one quarter has been successfully passed in each of these two-hour courses the student may choose any two-hour courses offered to complete her required number of quarters.

A physical examination is made of each student in order to give advice as to work to be undertaken and to aid the student in removing any physical handicaps.

One unit of university credit per quarter is given for three hours per week of satisfactory work in the activities courses, whether elective or required.

Personal Hygiene

1. Personal Hygiene.—A study of some of the factors which make for normal development and maximum efficiency in everyday living.
3 units, winter quarter (Mosher) MWF 11
winter, 31

Physical Education

1–5. Gymnastics.

1. Elementary Formal Gymnastics (one hour), combined with a two-hour course in dancing, swimming, or sports. Required of freshmen.
1 unit per quarter (Brandsten, Burk, Capps)
autumn, 97; winter, 112; spring, 107

2. Intermediate Formal Gymnastics (one hour), combined with any two-hour Physical Education course. Required of sophomores.
1 unit per quarter (Brandsten, Burk, Capps)
autumn, 102; winter, 98; spring, 96

3. Advanced Formal Gymnastics (one hour), combined with any two-hour Physical Education course. Elective for juniors and seniors.
1 unit per quarter (Brandsten, Capps)
autumn, 44; winter, 25; spring, 21

5. Remedial Gymnastics (two hours), combined with Course 1 or 2. Required of freshmen and sophomores whose posture, or other remedial handicap, demands special correction. Elective for juniors and seniors. Open only on consultation.
1 unit per quarter (Capps)
autumn, 24; winter, 19; spring, 9

10–19. Dancing.

10. Elementary Dancing, æsthetic and interpretive (two hours).
autumn, 36; winter, 34; spring, 13

11. Intermediate Dancing, interpretive and natural (two hours).
autumn, 7; winter, 36

12. Advanced Dancing, natural (two hours).
winter, 14

13. Folk Dancing (two hours).
spring, 24

One quarter of either No. 10, 11, or 12, required in the freshman year; one or more additional quarters may be taken in the sophomore year in fulfillment of the Physical Education requirement. Elective for juniors and seniors.

1 unit per quarter (Hodgson, Capps) [Combined with Course 1, 2, or 3]

20–29. Swimming and Diving.

20. Elementary Swimming (two hours).
autumn, 16; winter, 6; spring, 27

21. Intermediate Swimming. Requirement: 75 feet, any stroke (two hours).
autumn, 39; winter, 18; spring, 64

22. Advanced Swimming. Requirement: 75 feet, crawl or trudgeon stroke (two hours).
autumn, 26; winter, 9; spring, 52

25. Elementary Diving. Requirement: straight dive from three-foot board (two hours).
autumn, 5; winter, 1; spring, 9

26. Intermediate Diving. Requirement: running swan dive, back dive, forward jack-knife dive from three-foot board.
autumn, 3; winter, 2; spring, 7

27. Advanced Diving. Requirement (in addition to that of Course 26): backward jack-knife dive and forward and backward somersaults from three-foot board.
autumn, 1; winter, 2; spring, 4

One quarter of either swimming or diving required in the freshman year; one or more additional quarters may be taken in the sophomore year in fulfillment of the Physical Education requirement. Elective for juniors and seniors.

1 unit per quarter (Brandsten) [Combined with Course 1, 2, or 3]

30–242. Sports.

30. Elementary Archery.
autumn, 20; winter, 24; spring, 14

31. Intermediate Archery.
autumn, 8; winter, 10; spring, 7

32. Advanced Archery.
autumn, 5; winter, 6; spring, 11

33. Freshman Basketball.
winter, 31

34. Sophomore Basketball.
winter, 29

133. Junior Basketball.
winter, 15

134. Senior Basketball.
winter, 18

234. Graduate Basketball.

35. Freshman Hockey.
autumn, 28

36. Sophomore Hockey.
autumn, 31

135. Junior Hockey.
autumn, 26

136. Senior Hockey.
autumn, 16

236. Graduate Hockey.
autumn, 6

38. Elementary Tennis.
autumn, 12; winter, 20; spring, 18

39. Intermediate Tennis.
autumn, 27; winter, 10; spring, 19

40. Advanced Tennis.
winter, 12; spring, 22

41. Freshman Track.
winter, 2; spring, 7

42. Sophomore Track.
winter, 4; spring, 6

141. Junior Track.
winter, 5; spring, 4

142. Senior Track.
winter, 1; spring, 3

242. Graduate Track.

One quarter of one sport required in freshman year; one or more additional quarters in sophomore year in fulfillment of the Physical Education requirement. Elective for juniors and seniors.
1 unit per quarter
(BUNTING, BURK) [Combined with Course 1, 2, or 3]

110–229. Professional Courses.—(In preparation.) For training teachers of Physical Education.

REGULATIONS AND REQUIREMENTS

COSTUME.—The gymnasium suit is designed particularly for Stanford students and must be purchased at Roble Gymnasium. A limited number of suits may be rented at a nominal cost in special cases, upon consultation with the Director. Regulation gymnasium shoes are required for gymnastic and outdoor classes, and ballet slippers for dancing classes. The complete outfit costs approximately twenty dollars. Swimming suits are furnished by the University, each student providing her own caps and towel tickets.

TENNIS.—The student is required to furnish her own racquet and balls.

REMOVAL OF PROPERTY.—Collection and disposal is made of all suits, shoes, racquets, or other personal property not claimed within three days after the close of classes in this department each quarter.

FEES.—A fee of $1.00 per day is imposed for needless late registration in required classes, and a gymnasium fee of $5.00 required of graduate students taking work in Physical Education. Special fees are as follows: archery, $2.00; corrective gymnastics, $1.00; remedial gymnastics, $1.00; locker, 50 cents.

DEPOSIT.—A deposit of $1.00 is required for hockey, 50 cents of which is refunded when property is returned.

PHYSICS

David Locke Webster, Professor.
Elmer Reginald Drew, Frederick John Rogers, Associate Professors.
Joseph Grant Brown, Perley Ason Ross, Assistant Professors.
Warren Whittier Nicholas, Russell N. Shiras, Assistants.

Lower Division Courses

These courses are divided into two main groups. One of these includes courses prescribed or recommended for students preparing for biology, chemistry, geology and medicine, with other lines of work not classed as engineering. The other group is designed for engineering students. Each group covers the general subject of Physics, differing somewhat in their emphasis on various topics and even more in their mathematical prerequisites and the degree of facility required in using mathematical methods.

For a detailed statement on prescribed courses the student is referred to the announcement of his own department. In general, however, the courses of interest to non-engineering students are Courses 1 to 4 (inclusive) and Course 20, while those of interest to engineers are Courses 10 to 15 (inclusive) and Course 20.

Prospective Physics majors may take courses of either group, but are advised to take 1, 2, 20, 4, and 15, in the order named, followed by some of the courses in the Upper Division list.

The details of each course are as follows:

1. Mechanics and Heat.—The lecture hours in this course are used chiefly for problem work on the application of mechanical principles to practical cases, with most of the experimental illustrations of these principles found in the laboratory. The problems treated are on structures and machines of various kinds and on the effects of inertia in moving bodies, including sound sources and sound receivers. Heat is treated briefly, but with especial reference to the explanation of heat phenomena by the motions of molecules. The essential purpose of the course is not only to give information on these particular subjects, but also to introduce the student to the methods of exact reasoning needed in advanced scientific work of any kind. Three lectures, either with one laboratory period per week, counting 4 units altogether, or with two laboratory periods, counting 5 units altogether.

4 or 5 units, autumn quarter (Webster, Drew, Nicholas)
Lec. MWF 8 or 9; Lab. MTWThF 1:05–4:05; (any three hours) TTh 8–12
autumn, 115

2. Electricity.—This course is concerned chiefly with problems on the common practical uses of direct currents and with lecture-room and laboratory experiments illustrating their fundamental principles, including the essential principles of electrostatics, electrolysis, and magnetism. The last three weeks are given to brief surveys of alternating current phenomena and of the vacuum tube experiments proving an electric current to be a stream of electrons.

4 or 5 units (as in Course 1), winter quarter (Webster, Drew, Nicholas)
Lec. MWF 8 or 9; Lab. MTWThF 1:05–4:05; (any three hours) TTh 8–12
winter, 101

3. Lenses.—This course is planned for pre-medical students, as preparation for Physiology 103 and 105, but may be taken profitably by others who desire a brief survey of the optics of lenses and microscopes and cannot afford time for the more extensive work of Course 4 or 10. It may also be taken concurrently with Course 10. One laboratory period per week.

1 unit, winter quarter
(Drew) Lab. MTWThF 1:05–4:05; (any three hours) TTh 8–12
winter, 50; spring, 3

4. Light.—Dealing primarily with the subjects of refraction, dispersion, interference, diffraction and polarization of light, the course is designed especially for Physics and Geology majors but is open to others. Two lectures and two or three laboratory periods per week. Prerequisite: Course 1 or 12.

4 or 5 units, autumn quarter
(Brown) Lec. TTh 9; Lab. (two or three periods) MTW 1:05–4:05
autumn, 12; summer, 4

10. Light.—An elementary discussion of the simple phenomena of reflection, refraction, interference, and polarization, and a study of the ways in which these phenomena are utilized in the common optical instruments and for refined measurements. As this course consists of lectures and problems only, students desiring laboratory work also may take Course 3 concurrently with it.

2 units, winter quarter (Drew) Lec. WF 11
winter, 25

11. Statics.—A laboratory course to be taken concurrently with corresponding part of Theoretical Mechanics (Applied Mathematics 3*a* or Physics 111). One laboratory period per week.

1 unit, winter and *spring quarters
(Ross, Nicholas, Shiras) MTWThF 1:05–4:05
winter, 61; spring, 22

12. Dynamics.—A laboratory course to be taken concurrently with the corresponding part of Theoretical Mechanics (Applied Mathematics 3*b* or Physics 112). One laboratory period per week.

1 unit, autumn and *spring quarters (Ross, Shiras) MTWThF 1:05–4:05
autumn, 6; spring, 32

13. Heat.—Expansion, change of state, calorimetry, transfer of heat, radiation, absorption, and the relation of heat to other forms of energy, with a brief treatment of the properties of liquids and gases, including elasticity, viscosity, surface tension, diffusion, and osmosis. Prerequisite: Course 12 or concurrently with it.

4 or 5 units, winter and *spring quarters
(Brown) (winter) Lec. TTh 11; Lab. (two or three periods) WThF 1:05–4:05
(Drew) (spring) Lec. MWF 11; Lab. (one or two periods) MTW 1:05–4:05
winter, 13; spring, 40

14. Electricity.—Magnets, magnetic fields, magnetic flux, and magnetic circuits. Electric currents, electromotive force, and resistance in electrical circuits. Electric charges, electric fields, and electric potentials. Electromagnetism, electromagnetic induction, electric and magnetic energy

transformations. The C. G. S. and practical units of electrical quantities. Prerequisite: Course 13.

4 or 5 units, autumn and *spring quarters (ROGERS)
(autumn) Lec. MWF 11; Lab. (one or two periods) MTW 1:05–4:05
(spring) Lec. TTh 11; Lab. (two or three periods) MTThF 1:05–4:05
autumn, 38; spring, 40

15. Electricity and Electrical Measurements.—Lectures on the following topics: precise measurements of current, E. M. F., resistance, electric power, capacitance, inductance, the magnetic properties of iron, and on electric oscillations and resonance, electric discharges, cathode rays, and electron tubes. Prerequisite: Course 2 and calculus or Course 14.

4 or 5 units, winter quarter
(ROGERS) Lec. TTh 11; Lab. (two or three periods) MTThF 1:05–4:05
winter, 49

20. Modern Physics.—A course on the discoveries of the last few decades as to the nature of matter and energy. Specific topics covered are: evidence for the reality of atoms, their sizes and their arrangements in the structures of crystals; electrons and nuclei as the constituents of atoms, with current theories of atomic structure; the wave theory of light and the electrical nature of light waves; the reactions between electrons, light waves, and atomic collisions, leading to the theory of quanta; the nature of space and time. These topics are not suitable for problems or laboratory work, and are therefore treated by reading and lectures, with lecture experiments where they are practicable. Prerequisite: Course 2 or 14.

3 units, spring quarter (WEBSTER) Lec. MWF 9
spring, 78; summer, 10

UPPER DIVISION COURSES

100. Ions and Electrons.—Ionization and conductivity of electrolytes and of gases; electrons in vacuum tubes; electron theory of metals and of magnetism; X-rays and crystal structure. Prerequisite: Course 15.

5 units, spring quarter
(ROGERS) Lec. MTThF 11; Lab. (one period) MTW 1:05–4:05
spring, 5

101. Advanced Electricity.—Electric forces, fields, and potential, with the computation of capacitances; the Faraday-Maxwell theory of dielectric stresses; theories of magnetism and hysteresis; circuital laws of electromagnetism; elements of electromagnetic waves; computation of inductances; electric oscillations and resonance. Prerequisite: Course 15.

5 units, autumn quarter [By arrangement]
(ROGERS) [Given in alternate years; not offered in 1923–24]
autumn, 1

102. Radioactivity.—Lectures, lecture experiments, and a few laboratory experiments on radioactivity. Prerequisite: Course 100.

4 units, autumn quarter Lec. MTW 11; Lab. M 1:05–4:05
(ROSS) [Given in alternate years; not offered in 1923–24]
summer, 6

103. X-Rays.—A reading course with a few lectures and laboratory experiments, primarily for Physics majors and students who intend to apply X-rays for medical purposes. Prerequisite: Course 20.

3 units, autumn quarter [By arrangement]
(WEBSTER) [Given in alternate years; not offered in 1923–24]

110. Wave-Motion and Sound.—About one-third of the time is given to wave-motion, using wave machines, wave models, and ripple troughs, with lantern slides for illustration, the work on sound dealing largely with the production and propagation of sound, resonance, interference, musical instruments, and hearing. The production and properties of high frequency sound, the phonograph, the radiophone, and acoustics of auditoriums are briefly treated. Two lectures and two or three laboratory periods per week. Prerequisite: Course 1 or 12.

4 or 5 units, spring quarter — Lec. TTh 9; Lab. (2 or 3 periods)
(BROWN) [Given in alternate years; not offered in 1923–24]

111. Theoretical Mechanics.—The mathematical theory of mechanics for students of Physics and Mathematics, Course 11 (laboratory only) being advised as a concurrent. Prerequisite: calculus.

5 units, autumn quarter (Ross) — Lec. MTWThF 9
autumn, 4

112. Theoretical Mechanics.—A continuation of Course 111. Students may take Course 12 concurrently, and are advised to do so. Prerequisite: Course 111.

5 units, winter quarter (Ross) — Lec. MTWThF 9
winter, 3

113. Mechanical Measurements.—The exact measurements of mass, length, time, gravity, elasticity, surface tension, viscosity, etc., the student being given the privilege of selecting the field in which he works. Two or three laboratory periods per week. Prerequisite: Course 1 or 12.

2 or 3 units, spring quarter
(BROWN) [In alternate years; given in 1923–24]

120. Optical Instruments.—Elementary geometrical optics of the prism and the thick lens, with combinations of lenses, as used in optical instruments. Theory of the diffraction grating and interferometer, resolving power of instruments. Three lectures and one laboratory period per week. Prerequisite: Course 4.

4 units, winter quarter
(DREW) [By arrangement]
winter, 5 [In alternate years; given in 1923–24]

121. Physical Optics.—Lectures on emission and absorption spectra, magneto-optics, optical activity, fluorescence, and theories of atomic and molecular structure. Laboratory work with spectrometer, interferometer, and polarimeter. Prerequisite: Course 120.

4 units, spring quarter — Lec. TTh 11; Lab. ThF 1:05–4:05
(BROWN) [In alternate years; given in 1923–24]
spring, 2

130. Meteorology.—A course on the Physics of the air. Textbook, lectures, and problems. Prerequisite: a year of college Physics.

4 units, winter quarter — Lec. MWF 11
(BROWN) [In alternate years; given in 1923–24]
winter, 5

140. History of Physics and Physical Sciences.—(Up to the opening of the 19th century.) A course designed especially for students preparing for high school or college teaching or for research in physics, each member of the class being assigned a particular field and expected to

prepare and present lectures on its history. Prerequisite: a year of college Physics.
2 units, autumn quarter (Brown) TTh 11
autumn, 2; winter, 1

141. History of Physics—During the Nineteenth Century and up to the present. A continuation of Course 120.
2 units, winter quarter (Ross) TTh 11

COURSES PRIMARILY FOR GRADUATES

200. Teacher's Course in Physics.—The history of the development of present-day methods of teaching Physics, with practice in outlining courses for use in the high school. Two lectures and one laboratory period per week. Prerequisite: a year of college Physics.
3 units, spring and *summer quarters
(Brown) (spring); (Ross) (summer) [By arrangement]
spring, 3; summer, 5

201. Literature of Physics.—An intensive study of the literature of special topics in Physics. This course is intended for two classes of students: *(a)* those who expect to engage in research and wish to become familiar with the present status of the subject of the proposed research; and *(b)* those who are preparing for the teaching of Physics and wish to acquire facility in working up a subject for class use. The work consists chiefly in the preparation and presentation of reports upon the topics studied.
(Any Member of the Department) [By arrangement]
autumn, 1; spring, 1; summer, 2

210. Kinetic Theory.—The properties of gases deduced from the mechanics of molecules, equipartition of energy and specific heats, electron theory of conductivity, Brownian movement, surface energy, critical point and change of state, cohesion and cohesion phenomena. Prerequisite: Course 112.
5 units, spring quarter [By arrangement]
(Ross) [Given in alternate years; not offered in 1923–24]

211. Thermodynamics.—Extended discussion of the second law of thermodynamics and its application to physical and chemical transformations. Prerequisite: calculus.
3 units, autumn quarter
(Drew) [Given in alternate years; not offered in 1923–24]

212. Electrical Theory.—Maxwell's equations and electromagnetic radiation; Poynting's theorem; electron theory. Prerequisite: Course 101.
5 units, winter quarter [Given in alternate years; not offered in 1923–24]
(Rogers) [By arrangement]

213. Thermionic and Photoelectric Phenomena.—Reading and conferences on the thermionic and photoelectric phenomena, including the inverse photoelectric effect, and on their theoretical significance as to the nature of radiant energy. Prerequisite: Course 100.
3 units, autumn quarter [By arrangement]
(Webster) [In alternate years; given in 1923–24]
autumn, 2

214. Quantum Theories of Line Spectra.—Reading and conferences on current theories of the line spectra of light and X-rays, with their relation to atomic structure. Prerequisite: Course 213.
3 units, winter quarter [By arrangement]
(Webster) [In alternate years; given in 1923–24]

215. Quantum Theories of Continuous Spectra.—Reading and conferences on current theories of the continuous spectra of light and X-rays. Prerequisite: Course 214.
3 units, spring quarter [By arrangement]
(Webster) [In alternate years; given in 1923–24]

218. Electron Tubes.
5 units, winter quarter (Rogers)
winter, 1

220. Journal Club.—Oral reports on the current literature of Physics by department faculty and graduate students.
autumn, winter, and spring quarters F 4:15–6:00

230. Research.—Under this head may be included all work on original problems, experimental or theoretical.
(Any Member of the Department) [Units and quarter by arrangement]

Requirements for Graduation.—For graduation in the Department the minimum requirement is 60 units of Physics and Chemistry, of which at least 45 units must be Physics. Physics majors are advised to begin their work in Physics with Courses 1, 2, 20, 4, 15, and 100, in the order named.

The Teacher's Recommendation.—The minimum requirement for a major is 45 units of Physics, which should include Courses 1, 2, 20, 4, and 200. For a minor the minimum requirement is 25 units, which should include Courses 1, 2, 20, and 200. Courses in related subjects may be substituted for some of the Physics courses on the approval of the Department of Physics. It is highly desirable for candidates for the Teacher's Recommendation in Physics to work as Teaching Assistants in the elementary laboratories, the practice teaching requirement of the Department of Education being met in this way.

Laboratory Fees.—Courses with one laboratory period, $3.00 per quarter; two, $4.00 per quarter; three, $5.00 per quarter.

Summer Quarter

Courses given in the summer quarter are practically repetitions of certain courses given in other quarters, and are not all listed here because their details depend on the choice of a visiting professor to give some of them. Certainly included in the list, however, are: Course 200 (Teacher's Course), 201 (Literature of Physics) and a course more or less similar to Course 20 (Modern Physics), but probably with especial emphasis on some topic in which the visiting professor has recently been conducting research work of his own; also one or more other courses of the Upper Division or Graduate list, with the possible addition of Course 13 or 14.

PHYSIOLOGY

ERNEST GALE MARTIN, Professor.
FRANK WALTER WEYMOUTH, Associate Professor.
JAMES PERCY BAUMBERGER, JAMES ROLLIN SLONAKER, ARTHUR GIBSON VESTAL, Assistant Professors.
GEORGE DANIEL SHAFER, Instructor.
LAWRENCE BECKING, Assistant Professor of Economic Biology.
ERNEST HERMAN BRUNQUIST (University of Colorado), LAURENCE IRVING, Acting Instructors (Summer Quarter).

(General Biology, Ecology, and Economic Biology.—See under Biology, p. 145.)

4S. Elementary Lectures.—Covering the subject-matter of Course 101 and open to qualified students. Textbook: *The Human Body,* Martin, Advanced Course, Tenth Edition. Given only in alternate years.
2½ units, summer quarter (first half) (SHAFER) [Not offered in 1924]

5S. Elementary Lectures.—Covering the subject-matter of Course 102. Given in alternate years.
2½ units, summer quarter (first half) (SHAFER) MTWThF 9
summer, 15

9. Elementary Physiology of Marine Organisms.—In this course each student undertakes, under guidance of an instructor, to solve by his own efforts one or more simple problems in the physiology of marine organisms, either plant or animal, the problems assigned not requiring an extensive background of knowledge, although elementary chemistry and elementary biology are helpful. Frequent informal conferences are held, at which individual students report their findings to the entire class, members of the instructing staff discussing the reports with the class in such a way as to emphasize the physiological principles involved. An effort is made to distribute the problems over a wide enough field so that the reports and discussions furnish a general survey of physiology.

A partial list of general headings under which assigned problems fall is as follows:

Photosynthesis in marine plants; environmental conditions suitable to marine plant life; responses of marine plants to stimulation; motion in sea anemones, in starfish, in molluscs, in crustacea, in fish; responses of marine animals to stimulation (tropisms); environmental conditions suitable to marine animal life; digestion and circulation in marine organisms; respiratory interchanges in marine forms.

Textbook: *General Biology,* Burlingame, Heath, Martin, Peirce.
5 units, summer quarter, at Hopkins Marine Station
(BAUMBERGER, BECKING, BRUNQUIST, IRVING) Three afternoons weekly

101. Elementary Physiology.—The structure and functions of the body with special reference to the mechanisms of external adaptation, namely, muscles, nerves, and sense organs. Designed primarily for students not looking forward to the study of Medicine, with the intention, therefore, of imparting a general conception of the relationship of the human

body to its environment. Textbook: *The Human Body,* Martin, Advanced Course, Tenth Edition. Open to students with at least ninety units of college credit, or forty-five units, including previous training in biology and chemistry.

5 units, autumn quarter (SHAFER) Lec. MWF 10; Lab. ThF 1:05–4:05
autumn, 13

102. Elementary Physiology.—The structure and functions of the body with special reference to maintenance, growth and energy liberation, special attention being paid to circulation, digestion, excretion and metabolism. Although designed to offer in connection with Course 101 a survey of the field of human physiology, the course is planned so that it may be taken independently of Course 101. Textbook: *The Human Body,* Martin, Advanced Course, Tenth Edition. Requirements for admission the same as for Course 101.

5 units, winter quarter (SHAFER) Lec. MWF 10; Lab. MT 1:05–4:05
winter, 10

103. Principles of Physiology.—An advanced study of the fundamental principles of Physiology. The field is surveyed from the standpoint of the functioning of single cells and of multicellular organisms, and an especial effort made to familiarize the student with basic phenomena and their interpretation. The course serves primarily as a preparation for Courses 104 and 105, but is designed to meet the needs of advanced students who desire a general survey of the field and are unable to devote the time required for taking Courses 103, 104, and 105. Required of majors in the department. Prerequisites for majors: eighteen units of biology, including histology; physics 1, or its equivalent; chemistry up to and including bio-chemistry. Advanced students of other departments presenting less than three prerequisites are admitted on recommendation of their major departments provided previous training is of a character to enable them to take the course with profit; it is desirable that such training include biology and elementary chemistry. Textbook: *Physiology,* Starling or McLeod.

5 units, winter quarter
(MARTIN, BAUMBERGER, SLONAKER) Lec. MWF 8; Lab. WF 1:05–4:05
winter, 56

104. Physiology of Maintenance.—The general principles developed in Course 103, in their detailed application to man, so far as they relate to bodily maintenance. The laboratory work is based, as far as possible, on mammals, including the human body itself. Textbook: *Physiology,* Starling or McLeod. Required of majors in the department. Prerequisite: Course 103.

4 units, spring quarter
(MARTIN, BAUMBERGER, SHAFER, SLONAKER) Lec. TTh 11; Lab. ThF 1:05–4:05
spring, 53

105. Physiology of External Adjustment.—The principles developed in Course 103, in their detailed application to the mechanism by which in man and other mammals the organism is adjusted to its environment, thus comprising a study of the sense organs, the nervous system, and the motor apparatus. Advanced students of other departments are admitted on the terms stated under Course 103, provided their work in the

anatomy of the nervous system and sense organs is of a nature to enable them to profit by the course. Required of majors in the department. Textbooks: *Physiology,* Starling or McLeod, *Introduction to Neurology,* Herrick. Prerequisites as in Course 103.

5 or 6 units, winter and spring quarters
(WEYMOUTH, BAUMBERGER) Lec. MWF 11; Lab. MT or ThF 1:05–4:05

109. Advanced Physiology of Marine Organisms.—The general method followed is the same as in Course 9, with the problems assigned more advanced in character, involving the use of standard methods of chemical and physiological research. Only students with adequate training in biology, chemistry, or physics are enrolled. The aim of the course is to introduce the physiological problems presented by marine organisms and to familiarize the student with the technique of attacking such problems. The data secured by individual students are discussed by the class and by the instructing staff, in the frequent conferences held for this purpose.

To indicate the general character of the work a few representative problems are given here: coagulation of crustacean blood; oxygen dissociation curve of hemocyanin; buffer action and carbon dioxid-carrying power of crabs' blood; influence of hydrogen-ion concentration on ciliary activity; turgescence in medusæ; gas content of swim-bladders of fishes; salt equilibria in brine-inhabiting organisms.

Students capable of carrying on research work under guidance are allowed the widest range practicable in the selection of problems.

5 units, summer quarter at Hopkins Marine Station
(BAUMBERGER, BECKING, BRUNQUIST, IRVING) Three afternoons weekly

206. Journal Club.—A study of physiological literature, with oral and written reports. Required during two quarters of majors in the department.

1 unit, autumn, winter, and spring quarters (WEYMOUTH) [By arrangement]
autumn, 2; winter, 2; spring, 13; summer, 1

207. Special Physiology.—An advanced non-laboratory course open to students who have had one of Courses 103, 104, or 105. Designed to afford opportunity for the further study of selected subjects in Physiology, the work being planned for the individual student.

1 to 5 units, any quarter (DEPARTMENT FACULTY) [By arrangement]
winter, 2 (2 groups); summer, 1

208. Research in Physiology.—Special problems involving laboratory work.

(DEPARTMENT FACULTY) [By arrangement]
autumn, 3 (2 groups); winter, 2; spring, 2; summer, 5 (2 groups)

The Department of Physiology recommends for the A.B. degree students who have fulfilled the requirements for admission to the Stanford Medical School; have taken Courses 103, 104, 105, and two units of Course 206 within the department or equivalent courses elsewhere; ten additional units either within the department or in the department of Anatomy or of Bacteriology; and lecture and laboratory courses in bio-chemistry to the amount required by the Stanford Medical School. Anatomy 1 (Histology) is a prerequisite, also, and not

counted toward the ten additional units mentioned above as optional from the Department of Anatomy.

The preliminary requirements of the Stanford Medical School are: Fifteen quarter units of college biology (general biology, comparative anatomy, and embryology usually offered); general chemistry, qualitative and quantitative analysis, lecture course in organic chemistry (24 units of chemistry); thirteen quarter units of college physics; nine quarter units of college English; a reading knowledge of either French or German.

Students who have completed the work of the Lower Division are admitted as majors in the department, but to satisfy without serious schedule difficulties the departmental requirements within the regularly allotted six quarters, it is found advantageous to have taken as much as possible of the required preparatory science while still in the Lower Division.

The department requirement for students looking forward to medicine is designed to enable them to cover the required pre-medical subjects and the work of the first year in the Medical Department of this University, or to fit them to undertake to advantage the work of other first-class medical schools.

In addition to those majors looking forward to medicine, provision is also made for such as are interested primarily in Physiology as a preparation for teaching or research or as a phase of biological training.

The laboratory and library facilities are such as not only to provide for the proper teaching of the scheduled courses but to afford profitable opportunity for research along special lines—notably general physiology (for which the facilities of the Hopkins Marine Station are available); sense physiology (particularly vision) in man; mammalian physiology; and growth.

The Teacher's Recommendation.—To students seeking the teacher's recommendation the following programs are offered:

Teaching major: Elementary Chemistry, 9 units; Biology, 18 units, including either Comparative Anatomy, Vertebrate Embryology, or Histology; Physiology, 15 units (Courses 103, 104, and 105).

Teaching minor: Elementary Chemistry, 9 units; General Biology, 9 units; Physiology, 10 units (Courses 101 and 102).

POLITICAL SCIENCE

Victor J. West, Edwin Angell Cottrell, Professors.
Robert Treat Crane (University of Michigan), Acting Professor (Summer Quarter).
Graham Henry Stuart, Assistant Professor.
Hugh MacDowall Clokie, Lecturer (Winter Quarter).
Gilford Glenn Rowland, Gertrude Knox Wells, Research Assistants.

It is the purpose of the Department of Political Science to provide instruction for (*a*) those students, whatever their special interests, who desire to be informed about the organization, relationships, and processes

of political institutions, and (*b*) for those who desire to become teachers or investigators in political science. The courses offered by the department are so planned that, together with certain courses in economics, history, law, and philosophy, they constitute a systematic and fairly complete treatment of the subject. Excepting Course 1, each course deals with a special phase of the subject and has a definite relation to all of the other courses offered, but is so presented as to be complete in itself. Course 1 serves as a general survey of political science and as an introduction to all the other courses.

Graduation.—The department accepts as majors both the specialists and the students desiring the fundamentals of a liberal education. The minimum requirements for the recommendation for the A.B. degree in Political Science are the completion (1) of the work of the Lower Division (or its equivalent) and (2) of about forty units of Political Science. The department will endeavor to arrange the program of each of its major students to fit his particular aims. Certain courses in economics, history, law, and philosophy may be counted as Political Science at the discretion of the department.

Students taking Political Science as a major with the intention of preparing for journalism are referred to the announcement of the Department of Journalism (p. 218).

The Teacher's Recommendation.—For the recommendation for the high school teacher's certificate with Political Science as a minor, the applicant should have completed, in a manner satisfactory to the department, at least 23 units in Political Science, including Course 1, 2, 10, 102, 112, and a seminar.

Advanced Degrees.—Advanced and graduate courses are described in the following pages. (For the conditions under which candidates for higher degrees are accepted by the department, see the *Graduate Study Bulletin.*)

Elementary and General Courses

1. Introduction to Political Science.—Fundamental political conceptions: state, government, nature and source of public authority, individual liberty; governmental organization; governmental functions; political parties; international relations. Open to all students. This course, or its equivalent, is prerequisite to all other courses offered by the department.

5 units, spring quarter (West) MTWThF 8
spring, 131

2. State and Local Government.—Township, municipal, county, and state government in the United States, with special attention to California. (Open to first-year students by permission.)

5 units, autumn quarter (Cottrell) MTWThF 8
autumn, 75

Intermediate Courses

(Not open to students who have less than 40 units of University credit.)

10. Comparative Federal Government.—An inquiry into the operation of the federal principle in the United States, Germany, Switzerland, Argen-

tina, Canada, Australia, and South Africa, chiefly regarding the "division of powers" and the relationships between central and local governments.
4 units, autumn quarter (West) MTWTh 11
autumn, 31

11. Parliamentary Government.—A study of those European governments in which the responsible ministry is the characteristic feature, with especial attention to England and France. Emphasis on the relationships between the representative assembly and the executive.
4 units, spring quarter (Stuart) MTWTh 9
spring, 64

20. Current International Politics.—A study of the outstanding political problems resulting from the World War; the fulfillment of the Treaty of Versailles; the settlement of the allied debt; the Near Eastern question; the Fascisti movement in Italy; other international questions of current interest.
3 units, winter quarter (Stuart) MWF 9
winter, 40

Advanced Courses

(Not open to students who have less than 80 units of University credit, except by special arrangement.)

100. Elections.—The organization of the electorate for the performance of the functions of direction and control of governments; theories of voting; qualifications for voting; election methods—primary and ballot laws; safeguards against fraud, election contests, etc.
4 units, autumn quarter (West) MTWTh 8
autumn, 10

101. Legislatures and Legislation.—Composition, organization, and functions of representative assemblies; theories of representation; legislative procedure for control purposes and law-making; direct legislation.
4 units, winter quarter (West) MTWTh 8
winter, 33

102. Political Parties.—The political party as a part of the political machinery; party organization; party activities; campaign methods; reform movements; public opinion and party leadership; the true functions of parties; party responsibility.
4 units, winter quarter (West) MTWTh 10
winter, 25

110. Administrative Organization.—Principles of administrative organization; relation of executive to other branches; territorial distribution of administrative functions; organization of executive departments; elective versus appointive executives; single versus plural executives; responsibility of administrative officers; administrative organization in the United States.
4 units, autumn quarter (Cottrell) MTWTh 10
autumn, 30

111. Administrative Problems.—Methods of administrative control; the budget; accounting and reporting; purchase and supply; personnel: selection, promotion and demotion, removal and retirement.
4 units, spring quarter (Cottrell) MTWTh 8
spring, 24

112. Municipal Administration.—The special problems of city government: city planning; streets and parks; lighting; water supply; waste disposal; health; police; fire prevention and protection; education; revenue, expenditure and debt; public utilities.
4 units, summer quarter (COTTRELL) TWThF 8
summer, 29

113. Administration of Justice.—The principles and methods of administrative and judicial organization and the procedure for the enforcement of law; settlement of controversies and conviction and punishment for violation of law. (See Law 259.)
[Not given in 1923–24]

114. Foreign Relations.—Organization and functions of the Department of State; duties of diplomatic and consular officers; diplomatic usage; negotiation, ratification, and termination of treaties.
3 units, spring quarter (STUART) MTW 11
spring, 47

118. Government in Its Relation to Industry.—The effect on governmental problems caused by changes in business organization since the industrial revolution; the "laissez faire" versus the "general welfare" concept of governmental function; measures needed to make the general welfare concept effective.
4 units, summer quarter (COTTRELL) TWThF 10
summer, 18

119. Methods of Governmental Research.—The purpose of this course is the direction and training of students in methods of collecting and presenting data in governmental fields. Limited to 12 senior political science or economics majors.
4 units (COTTRELL) [Not given in 1923–24]

120. International Organization.—The attempts at international coöperation previous to the Great War; international administrative agencies, "unions," commissions, bureaus, etc.; arbitration tribunals; the coöperative agencies established by the allied and associated powers during the war; projects for international federation; the establishment of the League of Nations.
4 units, autumn quarter (STUART) MTWTh 9
autumn, 16

121. The League of Nations.—Critical study of the Covenant of the League of Nations; the organization and functions of the League government; the various subordinate governing agencies; the mandate system; the work of the League of Nations.
3 units, winter quarter (STUART) MWF 9
winter, 25

130. World Politics.—A systematic examination of the underlying factors in international relations.
4 units, summer quarter (CRANE) TWThF 11
summer, 30

GRADUATE COURSES

(Open to advanced undergraduates by permission.)

201. History of Political Theory.—Development of political thinking

from ancient times to the present; classical period; medieval period, renaissance and reformation; revolution and reaction; the analytical school; the historical school; recent tendencies.
4 units, summer quarter (CRANE) TWThF 9
summer, 13

202. American Political Theories.—Development of political thinking in America from colonial times to the present day, including the theories of the Revolution, the Constitution, the Jeffersonian and Jacksonian democracies, the slavery controversy, "states' rights" and modern tendencies.
4 units (———) [Not given in 1923–24]

203. Contemporary Political Theory.—A detailed study of the leading political ideas since the middle of the Nineteenth Century, with special reference to the various contemporary doctrines regarding the relation of the state to property and labor; socialism, guild socialism, syndicalism, the social catholic movement, etc.
4 units (———) [Not given in 1923–24]

204. Principles of Politics.—A systematic study of the principles of political science; scope and method of political theory; the nature, origin and basis of the state; sovereignty; form and functions of the state.
3 units winter quarter (CLOKIE) [By arrangement]
winter, 11

240. Seminar in Politics.—Topic for 1923–24: corrupt practices laws.
2 units, winter quarter (WEST) [By arrangement]
winter, 7

241. Seminar in Government.—Topic for 1923–24: municipal charters.
2 units, spring quarter (COTTRELL) [By arrangement]
spring, 16

242. Seminar in International Relations.—Topic for 1923–24: problems of world politics.
2 units, autumn quarter (STUART) [By arrangement]
autumn, 10

250. Graduate Seminar.—For candidates for higher degrees.
spring quarter (WEST) [By arrangement]
spring, 4

Courses in public law are given by the Law Department, which offers the following:

[**Constitutional Law.** Law 225 and 226.]
[**Administrative Law and Public Officers.** Law 227.]
[**Municipal Corporations.** Law 238.]
[**Public International Law.** Law 216.]
[**Judicial Administration.** Law 259.]

Courses dealing very largely with subjects comprised in the field of political science, are offered by other departments, as follows:

[**Roman Law.** Classical Literature B25.]
[**Roman Municipal Organization.** Classical Literature C8.]
[**Public Finance.** Economics 21.]
[**English Literature and Political Thought.** English 185.]

[**Ideal Commonwealths.** English 197.]
[**British Constitutional History.** History 158.]
[**Tropical Colonization in the Far East.** History 167.]
[**Military Law.** Military Science 142.]
[**Social Order and the Individual.** Philosophy 104.]

PSYCHOLOGY

Lewis Madison Terman, Walter Richard Miles, Professors.
Truman Lee Kelley, Professor of Education.
Edward Kellogg Strong, Jr., Acting Associate Professor.
John Edgar Coover, Associate Professor, and Research Fellow in Psychic Phenomena.
Calvin Perry Stone, Assistant Professor.
Franklin Smith Fearing, Maud Amanda Merrill, Instructors.
Karl Montague Cowdery, Research Fellow on the Buckel Foundation.
Florence Goodenough, Research Assistant in the Study of Gifted Children.
Heinrich Klüver, Helen Marshall, Assistants in Instruction.

The courses offered by the Department of Psychology are planned to meet the needs of three groups of students: (1) undergraduate majors in psychology; (2) candidates for the M.A. and Ph.D. degrees with major or minor in psychology; (3) students of other departments who desire a general knowledge of psychology and of its applications to certain specific fields such as education, economics, law, or medicine.

Requirements for the A.B. and M.A. degrees.—For the A.B. degree 45 units of psychology are required, including the following courses: 51, 55, and 60 or 190. Lower Division students planning to major in psychology, are recommended to take a laboratory science in the freshman year, preferably physics, biology, or physiology. Majors in psychology are expected ordinarily to take additional courses in science before graduation. The work in psychology should be begun in the sophomore year with Courses 51 and 55. Before the beginning of the junior year students are also advised to take Mathematics 20 or Applied Mathematics 1*a* and 1*b*.

For the M.A. degree 45 units of university work are required, including 30 units of psychology in addition to the A.B. requirements. Of these 30 units 9 may be devoted to thesis. Only students whose undergraduate work has been above average quality will be accepted as candidates for the M.A. degree in psychology.

Requirements for the Ph.D. degree.—The minimum residence requirement is three years beyond the A.B., at least one year of which must be spent at Stanford. Although extensive course work is required, demonstrated ability to do original research is regarded as the most important criterion of fitness for the degree.

Besides acquiring a fairly broad mastery of the general field of psychology, candidates for the doctorate will be expected to do intensive work in one or more of the following lines: (1) Experimental Psychology (including animal behavior); (2) Educational Psychology (including tests and measurements); (3) Industrial Psychology. A command of

statistical methods and a good reading knowledge of French and German should be acquired as early as possible in the student's course. Candidates whose major is in Experimental Psychology will be expected to take a minor or considerable work in one or more of the following sciences: biology, physiology, neurology, physics, chemistry. Those who major in Educational Psychology will take ordinarily a minor in education or in one of the biological sciences; and those who major in Industrial Psychology, a minor in economics or education.

(For additional information regarding advanced degrees, see the *Gradute Study Bulletin.*)

Requirements for a Ph.D. minor.—Candidates for the Ph.D. degree in other departments, when electing a minor in psychology, will be expected, according to individual qualifications, to take a minimum of from 45 to 60 units of psychology, of which at least 20 units shall be of graduate character.

Major for the Teacher's Certificate.—The department offers a major in psychology for the Teacher's Certificate, but does not offer a teaching minor. The requirement for teaching major is the same as that for the A.B. in psychology, 45 units.

Experimental Laboratory.—Aside from lecture and seminar rooms, offices, and library, the department has a laboratory comprising twenty-eight rooms which are well adapted to experimental purposes. These facilities permit fairly large laboratory classes and provide for each pair of workers the isolation which is necessary for good results in experimental psychology. There are three dark rooms. Groups of rooms may be connected by a convenient switchboard arrangement, each room being supplied with electric time from a master clock and with suitable outlets for various electric voltages. The laboratory is well equipped with duplicate sets of apparatus for elementary instruction. For advanced courses and research purposes the following pieces of apparatus, among others, are available: chronoscopes and time-measuring apparatus of various types, including the recent Dunlap model, a sound cage, fall phonometer, a large assortment of forks and other acoustic instruments, kymographs and pendulums of different forms, a string galvanometer outfit (American model), a mirror galvanometer set-up, Lester visual field perimeter, tachistocopes, the Ives-Cobb visual acuity tester, a complete photographic apparatus of the Dodge type for registering eye movements and reflexes, a pursuitmeter and other special devices for recording motor control, a bicycle ergometer, a psycho-galvanic reflex outfit, and a Benedict-Roth portable respiration apparatus, together with other equipment for the study of problems in physiological psychology. The department has available a reasonable amount of chemical, photographic, projection and microscope equipment, and there is likewise special instrumental provision for attacking problems in learning and for the acquisition of skill. The department faculty will assist competent students in the development of special research apparatus.

Animal Laboratory.—The animal laboratory consists of a large room, 30 x 50 feet, equipped with the common laboratory animals and with suitable apparatus. The temperature of the room is practically constant throughout the year, making possible a large variety of experimental studies.

Library Facilities.—The University library is well equipped in general, experimental educational, animal, and abnormal psychology, and includes practically all of the important periodicals in English, French and German. The sum of $600 a year from the Thomas Welton Stanford Fund has been set aside for the purchase of psychological books and periodicals. A reading room is maintained in the department building in which the leading texts and periodicals are kept.

Fellowships and Assistantships.—The Dr. C. Annette Buckel Foundation, supplemented by additional support from the Board of Trustees of the University, has provided a research fellowship for the psychology and pedagogy of backward children. A research assistantship for the study of gifted children has also been provided. There are two teaching assistantships in general and experimental psychology and one in abnormal psychology.

Reagents.—A special point is made of trying to provide research students with suitable reagents. Accordingly, when possible, all advanced students are expected to give a certain amount of time to this purpose.

Laboratory and syllabus fees.—A laboratory fee of $5.00 per quarter is charged for Courses 55, 120, and 131. For Courses 202, 203, 210, 225, and 226 the fee is $3.00 each. For certain other courses a syllabus fee of 50 cents to $1.50 is charged.

50. Mental Hygiene.
3 units, winter quarter (FEARING) [Not given in 1923–24]

51. General Psychology.—An introductory survey of the field of mental life. The point of view, methods, general principles of psychology and the experimentally attested facts of the science are presented. While the primary emphasis is on normal adult psychology, with the application of these facts to the control of human behavior, the animal and abnormal fields are also outlined and an attempt made to answer the practical questions which usually confront the beginner when undertaking a study of psychology. Lectures and exercises. A continued course not open to first-year students, and to seniors only by special arrangement. *Psychology,* Woodworth, and *General Introduction to Psychology,* Griffiith, used as the chief books of reference.

(51*a*) 3 units, autumn, spring quarters; 2½ units, summer quarter (first half) (DEPARTMENT FACULTY) MWF 11
autumn, 155; spring, 72; summer, 46
(51*b*) 3 units, winter quarter (DEPARTMENT FACULTY) MWF 11
winter, 120

55. Experimental Psychology.—A beginning laboratory course dealing entirely with human psychology, providing drill in the manipulation of simple psychological apparatus and in the technique of observation and introspection. A qualitative course covering sensation, perception, attention, reaction, association, and learning. Two three-hour laboratory periods and one lecture or conference, with prescribed readings. A manual is used. Prerequisite: credit for or enrollment in Course 51. Prospective majors are advised to take Courses 51 and 55 concurrently and in their second year. Unless special permission is granted it is required that the

autumn quarter's work in this course be a prerequisite to succeeding quarters.

3 units, autumn, winter, spring, and summer quarters
(55*a*) autumn and summer; (55*b*) winter; (55*c*) spring quarter
(FEARING) (1)MW 1:05–4:05, F 1:05–2:05; (2) TTh 1:05–4:05, F 1:05–2:05
autumn, 30; winter, 10; spring, 15 (2 sections)

60E. Introduction to Statistical Methods.—A demonstration and working course in statistical methods. Data resulting from "chance causes" are secured in a class experiment and are subjected to a complete statistical treatment, including the determination and evaluation of measures of central tendency, dispersion, precision, reliability; differences between means and between distributions; seriation and plotting; curve-fitting; correlation. Theory is discussed in connection with practice. Students provide Kelley's or Rugg's text and a polyphase duplex slide-rule (with a B scale). Calculating machines and mathematical tables are available. Some knowledge of algebra is a prerequisite.

5 units, spring quarter (COOVER) MTWThF 10
spring, 18

90. History of Psychical Research.—Lecture course. A canvass of opinion on psychic phenomena, made from the daily press, from the popular magazines and from professional literature, with a detailed study of the more important investigations by psychical researchers; canons of evidence and of experimental method are adduced, and the present status of the various psychic phenomena defined. The psychology of testimony and the nature of scientific proof are considered in connection with the cases of research chosen for study. Assigned reading, class reports. Prerequisite: Course 51 or a laboratory course in science.

3 units, autumn and summer quarters (COOVER) [Not given in 1923–24]

120. Laboratory Educational Psychology.
3 units, autumn and summer quarters (FEARING)
summer, 12

120a. Advanced Experimental Psychology.
3 units, winter and spring quarters (MILES)
winter, 4; spring, 1

130. Animal Behavior.—A critical survey of the experimental studies in animal behavior. The general topics of instinct, habit, imitation, retention, transfer of training, etc., receive detailed consideration. Lectures, demonstrations, recitations, and class reports. Prerequisite: 6 units of General Psychology; 3 units of experimental psychology, or an equivalent number of units in a laboratory course in zoology or physiology.

3 units, winter quarter (STONE) MWF 9
winter, 10

140. Psychophysical Methods.—A seminar course. Brief review of the development of psychophysical methods; systematic presentation and study of both experimental and mathematical procedures; study of the recognized sources of error in psychological experiments and means of eliminating or measuring them; application of the standard Phi Gamma methods (Urban's tables used) to typical data ordinarily obtained by the student in his current laboratory work; discussion of the "psychometric

function." Titchener's *Quantitative Manual,* Brown and Thompson's *Essentials of Mental Measurement,* with the professional journals used for reference. A one-unit individual report required. Prerequisite: Courses 51, 55, and 60 or 190.

3 units, winter quarter (COOVER) TTh 10

145. The Psychology of Industrial Personnel.—Psychological methods of selecting employees; methods of efficiency rating; personnel management, etc. Designed primarily to meet the needs of advanced students in economics and engineering. Prerequisite: Course 51.

4 units, autumn and winter quarters (STRONG) MWF 9
autumn, 20; winter, 9

150. Advertising and Selling.—The psychology of appeal and response. Experimental studies in the psychology of advertising and salesmanship reviewed. Course 51 is prerequisite and Course 55 recommended.

4 units, autumn and winter quarters (STRONG) MWF 8
autumn, 47; winter, 27

152. Selling.

3 units, spring quarter (STRONG)
spring, 24

160. Abnormal Psychology.—A general course devoted to the symptomatology of mental and nervous diseases; the institutional care and treatment of the insane; the use of psychoanalysis and psychotherapy in medicine and the social sciences. Prerequisite: Course 51.

4 units, spring quarter (STONE) MTThF 9
spring, 21

161. Freudian Psychology.

3 units, spring quarter (STONE) [Not given in 1923–24]

165. Educational Psychology: Introductory.—A general introductory course intended primarily for teachers and undergraduate students. Lectures, demonstrations, recitations, reports. Prerequisite: Course 51 or the equivalent.

4 units, autumn and *summer quarters (STONE) MTThF 11
autumn, 26; summer, 20

170. Mental Deficiency and Delinquency.—A study of mental retardation and its relation to delinquency. Mental traits of the feebleminded; heredity; classification; psychological diagnosis, etc. Results of experimental investigation of higher mental integrations. Prerequisite: Courses 51 and 55.

3 units, summer quarter (MERRILL) MWF 9
summer, 11

175. Psychical Research.—A library research course leading to a typewritten report on any phase of psychical research of special interest to the student, the more authoritative sources to be examined by the student. This course may be preparatory to research. No prerequisites; permission to register required.

autumn, winter, and spring quarters (COOVER) [By arrangement]
autumn, 6; winter, 3; spring, 1

180. Psychical Research.—A research course offering opportunity for experimental attack upon problems in the field of psychical research for which the laboratory equipment is adequate. Registration by permission.
autumn, winter, and spring quarters (COOVER) [By arrangement]
autumn, 2

190. Elementary Statistical Method.—A study is made of the various kinds of statistical series and the properties of each, the purpose of the first part of the course being to discover what constitutes the significant features of a body of data. Opportunity given to obtain practice in the computation of the important constants of distributions; also in the use of calculating machines and other aids to computation. The approach is inductive, starting with measures and having as its object the discovery of the statistical resources available for determining the significance of data.
4 units, autumn and *summer quarters (KELLEY) MTThF 8

195. Suggestion.—A seminar. A study of the various phenomena which in the literature are comprehended under the term "suggestion;" the classification of these phenomena according to the psychological principles; the results of research; the relation of suggestion to the subconscious, dissociated, abnormal states of mind. Reading, reports, discussion, a one-unit individual, typed report. Registration by permission. Prerequisite: 18 or more units of psychology.
3 units, spring quarter (COOVER) Th 7:30–9:30
spring, 3

201. Contemporary German Psychology.
winter quarter (KLÜVER) [By arrangement]
winter, 2

202. Experimental Psychology: Advanced.—Laboratory work with human subjects, covering a variety of topics and including complex qualitative problems and quantitative investigations. The course is designed to acquaint students with psychological apparatus, instruments, and means of measurement as well as to provide a first-hand opportunity to perform some experiments rather intensively. One lecture or conference with prescribed readings and two 3-hour laboratory periods. Prerequisite: Psychology 51 and 55, and statistical methods (60 or 190) to accompany or precede.
3 units, winter and spring quarters (MILES) MW 1:05–4:05, F 2:05–3:05

205a. Human Psychology: Advanced.—Beginning with a brief consideration of their historical setting, the topics of sensation, perception, and attention are systematically covered through a review of the experimental literature. Open to qualified graduates and to senior majors.
3 units, spring quarter (MILES) MWF 10
spring, 5

205b. Human Psychology: Advanced.—Memory, feeling, action and emotion are the chief topics considered in a systematic discussion of research literature of these subjects. Open to qualified graduates and to senior majors.
3 units, summer quarter (MILES) MWF 10
summer, 6

210. The Learning Process.—A laboratory course providing the data and the opportunity for a qualitative and quantitative study of the development of efficiency in various learning situations involving different levels of complexity in materials and mental processes. Special attention to the statistical treatment of results and to graphic presentation, analysis of processes, and the morphology of skill. One hour seminar for discussion and reports of reading, with two laboratory periods weekly. Prerequisite: Courses 51 and 55.

3 units, autumn quarter (COOVER) Seminar F 1:05; Lab. MW 1:05–4:05
autumn, 8; winter, 3; spring, 1

215a. Educational Psychology: Advanced.—Original endowment; mental development; individual differences in relation to heredity, sex, and environment. Lectures and class reports. Prerequisite: Courses 51, 165, and 60 or 190.

4 units, winter quarter (TERMAN) MWF 11
winter, 19

215b. Educational Psychology: Advanced.—A critical survey of the literature of learning, formal discipline, work and fatigue, with special reference to the school program. Lectures and class reports. Prerequisite: Courses 51, 55, 165, and 60 or 190, with Course 210 recommended to precede.

4 units, spring quarter (TERMAN) MWF 11
spring, 11

220. Statistical Methods: Advanced.—A continuation of Course 190, and dealing primarily with series of related measures. The statistical methods of analysis of correlated data and the means of combining several measures into total scores are treated, with particular application to educational and mental test data and problems. Prerequisite: Course 190 or 60.

4 units, winter quarter (KELLEY) MTThF 8

225. Mental Tests.—An introductory course dealing with the psychological principles of mental testing, test procedure, Binet and group tests, with practical applications. Prerequisite: Courses 51 and 60 or 190, with Course 55 to accompany or precede.

4 units, winter and *summer quarters (MERRILL) MWF 2:05–4:05
winter, 12; summer, 7

226. Mental Tests.—Essentially a laboratory course, with one or two lectures weekly, important types of mental tests being subjected to experiment and critically evaluated. Course 225 is a necessary prerequisite.

4 units, spring quarter (MERRILL) MWF 2:05–4:05
spring, 7

230. Association of Ideas.—A seminar. The purpose is to clarify the student's conceptions of the ways in which mental elements are connected or combined or fused. Topics covered include the English "school" of association psychology and its dominance of popular psychology today; results of laboratory research; modern formulations from experimental results; importance to psychology; bearing upon learning and school practice. Assigned reading, reports, discussion, and a one-unit individual, typewritten report. Registration by permission.

3 units, autumn quarter (COOVER) Th 7:30–9:30

231. Method of Experiment.—A seminar. An examination of scientific method and its applications to various types of research in experimental psychology; a study of typical researches; applications to present problems; inspection of statistical procedures appropriate to the various types of experimental procedure; consideration of criteria of validity of results. A one-unit typed report required. Registration by permission. Prerequisite: Courses 55 and 60 or 190.

3 units, winter quarter (Coover) Th 7:30–9:30
winter, 2

240. Animal Behavior.—A laboratory course of experiments in vertebrate animal behavior, each student conducting a series of minor studies on congenital and learned responses of laboratory animals. Initial investigations leading to theses for advanced degrees permitted in this course. Prerequisite: Course 130.

3 units, spring and summer quarters
(Stone) (More units, and also other hours, by arrangement) MWF 1:05–4:05
summer, 2

245. Psychological Clinic.—Practical experience in the use of tests in the diagnosis of defective and exceptional children; also in gathering data for case study of an individual. Observation of treatment and disposition of cases at the Juvenile Court and County Health Center. Prerequisite: Courses 51, 55, and 225.

winter and spring quarters (Merrill) [By arrangement]
autumn, 1; winter, 1; spring, 2

250. Experimental Problems.—A minimum of eight hours' work in the psychological laboratory per week and thesis. For well-qualified graduates and senior majors.

2 units, winter, spring, and summer quarters (Miles) [By arrangement]
winter, 3; spring, 1; summer, 1

255. Mind and Body.—A seminar course. The problem of the mind-body relationship is first given a brief historical consideration; psychological postulate of "psychophysical parallelism" critically examined; pertinent data of psychology, patho-psychology, and medical practice, with mental disorders (including the aphasias) collected and studied; phenomena of hypnotism and dissociation of personality reviewed; and Freudian psychoanalysis briefly but critically examined from the standpoint of physiological psychology. A one-unit individual, typed report required. Prerequisite: Course 51.

5 units, spring quarter (Coover) MTh 1:05–3:00
spring, 7

267. Mental Development.—Seminar course. A critical survey of the most important studies of infancy, childhood, adolescence, and senescence. Intended primarily for major students in psychology or education, in the second or third year of graduate work. A two-quarter course. Alternates with Course 268.

2 units, winter and spring quarters (Terman) TTh 11
winter, 6; spring, 6

268. Psychology of Endowment.—A seminar and thesis course. Tests of general intelligence, special abilities, character and personality; the

psychology of genius; mental inheritance; race differences, etc. Intended primarily for major students of psychology or education, in the second or third year of graduate work. A two-quarter course. Alternates with Course 267.
3 units, winter and spring quarters (TERMAN) [Not given in 1923–24]

270. Psychometry.—Essentially a research course. Attention given to the analysis of mentality and to the measurement of interest, of special sensory capacity, and of certain specific habits and skills, with the bearing upon problems of guidance stressed. Admission by consent of the instructor.
4 units, winter quarter (KELLEY) MTThF 10

272. Seminar in Animal Learning.
2 units, summer quarter (STONE)
summer, 1

275. Seminar in Vocational Psychology.—Registration by permission.
autumn, winter, and spring quarters (STRONG) [By arrangement]
autumn, 3; winter, 8; spring, 6

280. Seminar.—Open to advanced graduate majors.
1 or 2 units, autumn quarter (TERMAN) W 7:30–9:30
autumn, 12

285. Current Literature of Experimental Psychology.—Seminar. Open to graduates only.
1 unit, spring and summer quarters (MILES) [By arrangement]

290. Research.
(DEPARTMENT FACULTY) [By arrangement]
autumn, 8 (2 groups); winter, 10 (3 groups); spring, 12 (5 groups); summer, 4 (2 groups)

ROMANIC LANGUAGES

OLIVER MARTIN JOHNSTON, CLIFFORD GILMORE ALLEN, AURELIO MACEDONIO ESPINOSA, Professors.
RENÉ LEVESQUE (Laval University), GEORGE WALLACE UMPHREY (University of Washington), Acting Professors (Summer Quarter).
STANLEY ASTREDO SMITH, Associate Professor.
FREDERICK ANDERSON, ALFRED COESTER, Assistant Professors.
WILLIAM LEONARD SCHWARTZ, Instructor.

The undergraduate courses in the Romanic Languages are planned so as to give students an intimate acquaintance with the modern forms of the languages spoken in the principal neo-Latin countries. To this end systematic attention is paid to pronunciation, reading, syntax, and conversation; in the higher courses special emphasis being laid on the study of literature. In order to give students an opportunity to become familiar with the spoken idioms, the majority of the courses are conducted in the language which forms the object of study.

The department offers advanced courses leading to the degree of Master of Arts and Doctor of Philosophy. The library contains adequate

material for graduate courses in French and Spanish literature and philology. The Dante collection is also adequate for graduate work in this subject. The department also accepts candidates for certification as high school teachers of French and Spanish in California, and provides courses to meet the special needs of such candidates. Either French or Spanish may be selected as a major subject. In addition to the elementary course, which does not count as a part of the requirement, majors in French or Spanish must complete the following courses for the degree of Bachelor of Arts: (1) second-year course (15 units); (2) advanced composition and conversation (9 units); (3) six courses in literature or philology in the major subject.

These six courses must include an outline course in the literature of the major subject (A140 for French majors and B140 for Spanish majors, or their equivalent). It is desirable that the outline course precede the other literary courses in the subject.

Major students must register each quarter for at least one course in the major subject. This provision is intended to prevent students from crowding major requirements into certain quarters and from registering as French or Spanish majors in other quarters without taking any work in the major subject.

The total number of units required for the degree of A.B. approximates 43 or 44 units, exclusive of the elementary course.

THE TEACHER'S RECOMMENDATION.—The requirements for the teacher's recommendation are the same as for the Bachelor's degree, with the addition of the following courses: A80 and A200E for majors in French; B80 and B200E for majors in Spanish.

A reading knowledge of Latin and German is highly desirable.

Some of the courses scheduled for the summer quarter extend through only one term of the quarter. Others extend through both terms, but credit is granted for work done in either term.

First-year French and Spanish are given by competent instructors under the supervision of the Department Faculty, and a fee of $7.50 per quarter is charged. University credit is given for this work.

Students who are required to take French A3*a* or Spanish B3*a* during the autumn quarter are permitted to begin second-year French or Spanish (A21 or B21) in the winter quarter.

Students who begin second-year French or Spanish in the winter quarter, upon completion of A22 or B22 with a grade of A, are admitted into advanced courses in French or Spanish in the spring quarter.

A. FRENCH

I. ELEMENTARY AND INTERMEDIATE COURSES

A1. Elementary French.—Oral work. Training in pronunciation by means of phonetic symbols; the elements of French grammar; the regular verb and the verbs *avoir* and *être;* Fraser and Squair, *French Grammar,* 26 lessons. Reading from Olmsted and Barton, *Elementary French Reader.*

5 units, autumn and *winter quarters (CUMMINGS, STAUF) (autumn) MTWThF 9, 11; (winter) MTWThF 9 (BRUNET, CHASE)
autumn, 86 (3 sections); winter, 36

A2. Elementary French.—(Continued). Oral work also continued. Study of the irregular verbs; Fraser and Squair, *French Grammar*, to end of Part I. Reading: Olmsted and Barton, *Elementary French Reader*. Prerequisite: A1, or one year of high school French.

5 units, winter and *spring quarters (BRUNET, CHASE) (CUMMINGS, STAYNER) (winter) MTWThF 9, 11; (spring) MTWThF 11
winter, 71 (3 sections); spring, 33 (2 sections)

A3. Elementary French.—Oral work continued; thorough review of grammar. Reading: About, *Le Roi des Montagnes*. Prerequisite: A2, or equivalent.

5 units, spring quarter (BRUNET, CHASE, STAYNER) MTWThF 9, 11
(CUMMINGS) (autumn) MTWThF 11
autumn, 36; (2 sections); spring, 68 (3 sections)

A3a. Elementary French: Special Course.—Grammar and composition: Fraser and Squair, *French Grammar*. Intended for two classes of students: (1) those credited with one year and a half of high school French; (2) those technically entitled to enter second-year French, but whose preparation is insufficient. (See last two paragraphs of the general announcement above.)

3 units, autumn quarter (CUMMINGS) MWF 9
autumn, 50 (2 sections)

A21. Second-Year French.—Course conducted as far as possible in French. Grammatical review; composition; Fraser and Squair, *French Grammar*. Reading: Balzac, *Curé de Tours;* Molière, *Médecin Malgré Lui*. Prerequisite: A3 or two years of high school French.

5 units, autumn and winter quarters
(SCHWARTZ, ANDERSON) (autumn) MTWThF 9, 10; (winter) MTWThF 9
autumn, 51 (2 sections); winter, 19

A22. Second-Year French.—(Continued). Conducted as far as possible in French. Grammar and composition; Fraser and Squair, *French Grammar*. Reading: France, *Le Livre de Mon Ami;* Beaumarchais, *Barbier de Séville*. Prerequisite: A21 or three years of high school French.

5 units, winter and spring quarters
(SCHWARTZ, ANDERSON) (winter) MTWThF 9,10; (STAUF) (spring) MTWThF 9
winter, 15; spring, 16

A23. Second-Year French.—(Continued). Grammar and composition. Reading: V. Hugo, *Les Misérables;* A. France, *Contes: Adie* and *De Satgé*. Conducted in French. Prerequisite: A22, or equivalent.

5 units, spring quarter (ANDERSON, SCHWARTZ) MTWThF 9, 10
spring, 32 (2 sections)

A26. French Scientific Reading.—Intended for engineers. Prerequisite: A3.

3 units, autumn quarter (STAUF) MWF 11
autumn, 30

A27. French Scientific Reading.—(Continued).

3 units, winter quarter (STAUF) MWF 11
winter, 30

A28. French Scientific Reading.—(Continued).

3 units, spring quarter (STAUF) MWF 11
spring, 25

A30. Directed Reading.
1 or 2 units per quarter
autumn, 29 (2 groups); winter, 47 (3 groups); spring, 49 (3 groups)

A40. Exercises Oraux.—Oral review of grammar to facilitate conversation in correct French. Texts illustrating French life are memorized to enlarge vocabulary. Prerequisite: A3, or equivalent. Students should consult the instructor before registering in this course.
1 or 2 units, summer quarter (SMITH)
summer, 8 MWF 10

A41. Modern French Reading.
3 units, summer quarter (BACHMAN)
summer, 7

A80. French Pronunciation.—Training in French pronunciation by means of practical phonetics. This course is of special interest to prospective teachers. Prerequisite: A3, or equivalent.
2 units, spring quarter (SMITH)
spring, 19 MW 3:05

II. ADVANCED AND GRADUATE COURSES

A101. Commercial French.—Letter-writing and introduction to commercial vocabulary: Malakis, *Le Français du Commerce*. Prerequisite: A23 or equivalent.
3 units (SCHWARTZ)
[Not given in 1923–24]

A111. Third-Year French Composition and Conversation.—Conducted in French. Composition based on French texts; outside reading and written reports in French. Prerequisite: A23, or four years of high school French.
3 units, autumn quarter (SCHWARTZ)
autumn, 44 (2 sections) MWF 8, 11

A112. Third-Year French Composition.—(Continued). Prerequisite: A111, or equivalent.
3 units, winter quarter (SCHWARTZ)
winter, 40 (2 sections) MWF 8, 11

A113. Third-Year French Composition.—(Continued). Prerequisite: A112, or equivalent.
3 units, spring quarter (SCHWARTZ, ANDERSON)
spring, 29 (2 sections) MWF 8, 11

A121. Fourth-Year French Composition.—Translation of connected English prose into French; original composition; dictation. Prerequisite: A113.
3 units, winter and summer quarters
(SMITH) (winter) MWF 10; (———) (summer) MWF 10
winter, 3; summer, 6

A122. (Continuation of A121.)
3 units, spring quarter (SMITH)
spring, 4 MWF 10

A123. (Continuation of A122.)
3 units (SMITH)
[Not given in 1923–24]

A130. French Classics.—Reading in class: Masterpieces of French literature. Prerequisite: A23, or equivalent.
3 units [Not given in 1923–24]

A131. Rousseau.—Reading and interpretation of selections from Jean Jacques Rousseau.
2 units, winter quarter (Anderson) [Not given in 1923–24]

A140. Outline Course in the History of French Literature.—Conducted in English. Strachey, *Landmarks in French Literature;* Vreeland and Michaud, *Anthology of French Prose and Poetry;* outside reading. Prerequisite: A23, or equivalent.
5 units, autumn quarter (Anderson) MTWThF 9
3 units, summer quarter (Smith) MWF 11
autumn, 54; winter, 1; summer, 7

A141. The French Drama.—Lectures on the development of the French drama, with special emphasis on the Nineteenth Century; outside reading and reports. Prerequisite: A23, or equivalent.
3 units, summer quarter (Levesque) MWF 8
summer, 13

A142. The French Novel.—Lectures in French on the history of the novel in France, with emphasis placed on the movements of the Nineteenth Century. Prerequisite: A23, or equivalent.
3 units, spring quarter (Schwartz) MWF 10
spring, 12

A143. French Lyric Poetry.—Conducted in French. Preliminary study of medieval poetical forms, leading to extensive reading in class of Nineteenth Century poets, and intended to familiarize students with the best-known masterpieces. Textbooks: Oxford *Book of French Verse,* Henning's *French Lyrics of the Nineteenth Century.* Prerequisite: A23, or equivalent.
4 units, winter quarter (Schwartz) TWThF 10
winter, 7

A144. French Civilization.—Conducted in French. A survey of the history of French civilization from the Middle Ages to the present time. This course is intended to furnish a background for the study of French literature. Lectures and outside reading. Prerequisite: A23.
3 units, summer quarter (Levesque) MWF 1:05
summer, 9

A145. French Historians.—Conducted in French. Lectures on French historians of the Nineteenth Century. Reading of selections. Prerequisite: A23, or equivalent.
3 units, winter quarter (Anderson) [Not given in 1923–24]

A150. Hugo.—His period, life, and works. Prerequisite: A140, or equivalent.
3 units (Schwartz) [Not given in 1923–24]

A151. Molière.—The complete works read, with special attention to the characters in the plays; reading and reports. Prerequisite: A23, or equivalent.
4 units (Schwartz) [Not given in 1923–24]

A152. Literary Criticism.—Lectures on the history of literary criticism in France. A careful study of Madame de Staël, De l'Allemagne, and various works by Scherer, Taine, and Renan. Prerequisite: A23, or equivalent.
4 units, spring quarter (ANDERSON) [Not given in 1923–24]

A161. French Literature in the Seventeenth Century.—Conducted in French. Lectures on the formation of the classic ideal in France and on the main movements, authors, and works of the classic age; outside reading and reports. Prerequisite: A23, or equivalent.
3 units, winter quarter (SMITH) MWF 11
winter, 8

A162. French Literature in the Eighteenth Century.—Conducted in French. A study of the main ideas and tendencies of the period, as illustrated by the lives and works of its most important authors; outside reading and reports. Prerequisite: A23, or equivalent.
3 units, spring quarter (SMITH) MWF 11
spring, 9

A163. The Romantic Movement in France.—A study of the main features of romanticism as manifested in the lives and works of the forerunners and of the most important representatives of the French romantic movement. Lectures in French; outside reading; class discussions. Prerequisite: A161, or equivalent.
3 units (SMITH) [Not given in 1923–24]

A164. Sixteenth Century.—Reading and interpretation of representative selections; lectures and reports.
2 units (SMITH) [Not given in 1923–24]

A170. Corneille.
3 units, autumn quarter (JOHNSTON) Th 2:05–4:05
autumn, 13

A200. Problems of Teaching French.—Practice in the use of the phonetic method as a means of teaching French pronunciation; review of French grammar; lectures on methods of teaching French; pedagogical bibliography; suggestions regarding available textbooks. Practice teaching.
3 units, winter quarter (JOHNSTON) MWF 2:05
2 units, summer quarter, first half (SMITH) MTWF 3:05
autumn, 1; winter, 10; spring, 1; summer, 6

III. PRIMARILY FOR GRADUATES

A201. Introduction to the Study of Old French.—Reading and interpretation of old French texts selected from Bartsch-Wiese—*Chrestomathie de l'Ancien Français*—with a study of old French phonology and morphology.
3 units, autumn quarter (JOHNSTON) MWF 3:05–4:05
2 units, summer quarter (SMITH) MW 2:05
autumn, 7; summer, 2

A202. French Historical Grammar.—Lectures on old French phonology and morphology.
3 units, winter quarter (JOHNSTON) MWF 2:05–3:05
winter, 6

A203. French Historical Syntax.—The most important phases of modern French syntax, studied from an historical point of view. This course is intended primarily for teachers.
2 units (JOHNSTON) [Not given in 1923–24]

A204. Old French Literature.—French literature from the beginnings to the Fifteenth Century, with emphasis on the literary and social traits.
3 units, spring quarter (JOHNSTON) MWF 2:05–3:05

A205. French Arthurian Romances.—Lectures on the romances of the Round Table, the legend of the Holy Grail, and the legend of Tristan and Iseult; outside reading and reports.
3 units, summer quarter (JOHNSTON) [Not given in 1923–24]

A240. Graduate Thesis.
3 to 5 units per quarter
summer, 2

A250. French Seminar.—*Floire et Blancheflor.*
1 unit, autumn, winter, and summer quarters
(JOHNSTON) [Not given in 1923–24]

A251. French Seminar.—The old French epic.
3 units (JOHNSTON) [Not given in 1923–24]

B. SPANISH

I. ELEMENTARY AND INTERMEDIATE COURSES

B1. Elementary Spanish.—The elements of grammar, composition, and conversation. Texts: Espinosa and Allen, *Beginning Spanish,* Lessons I-XXV; Espinosa, *First Spanish Reader, I.*
5 units, autumn and winter quarters (BIANCHI, CUMMINGS, DELBON, KLENCK, RAMELLI, ROSS) (autumn) MTWThF 8, 9, 11; (winter) 9
autumn, 159 (5 sections); winter, 23

B2. Elementary Spanish.—(Continued). Texts: Espinosa and Allen, *Beginning Spanish,* Lessons XXVI-XLVII; Espinosa, *First Spanish Reader, II.*
5 units, winter and spring quarters (BIANCHI, DELBON, RAMELLI, ROSS, WALSH, WILLIAMS) (winter) MTWThF 8, 9, 11; (spring) 9
winter, 150 (5 sections); spring, 23

B3. Elementary Spanish.—(Continued). Texts: Espinosa and Allen, *Beginning Spanish.* Lessons XLVIII-LXVIII; Quintero, *La Muela del Rey Farfán;* Allen, *Fábulas y Cuentos.*
5 units, autumn and spring quarters (VOERGE) (autumn) MTWThF 9
(BIANCHI, HENRY, RAMELLI, WALSH, WILLIAMS) (spring) MTWThF 8, 9, 11
autumn, 31; spring, 131 (5 sections)

B3a. Elementary Spanish: Special Course.—A rapid review of Espinosa and Allen, *Beginning Spanish,* lessons VII–LX; grammar and composition. Intended for two classes of students: (1) those credited with one year and a half of high school Spanish; (2) those technically entitled to enter second-year Spanish, but whose preparation is insufficient. (See last two paragraphs of the general announcement above.)
3 units, autumn quarter (VOERGE, WILLIAMS) MWF 11
autumn, 53 (2 sections)

B21. Second-Year Spanish.—Conducted mainly in Spanish. Review of grammar, with abundant practice in conversation and composition; reading aloud in Spanish, with careful drill in pronunciation; reading and interpretation of Spanish texts, with a minimum of translation; conversation in Spanish based on the texts read. Bi-monthly tests in translation and written reproduction of Spanish texts or short stories.

Composition and conversation (TTh): Text—Espinosa-Allen, *Elementary Spanish Grammar*, lessons XV–XLIX. Reading, pronunciation, and conversation (MWF): Texts—Benavente, *El Príncipe que todo lo aprendió en los Libros;* Palacio Valdés, *La Hermana San Sulpicio.*

5 units, autumn and winter quarters (ALLEN, COESTER, RAMELLI, WILLIAMS) (autumn) MTWThF 9, 11; (winter) MTWThF 11
autumn, 113 (3 sections); winter, 56 (2 sections)

B22. Second-Year Spanish.—(Continued). Composition and conversation (TTh): Texts—Espinosa, *Spanish Composition and Conversation*, pages 1–97. For grammar review and reference—Espinosa-Allen, *Elementary Spanish Grammar.* Original exercises in Spanish composition. Final examinations on all regular and irregular verbs and the use of the subjunctive. Reading, pronunciation, and conversation (MWF): Texts—Martínez Sierra, *Teatro de Ensueño;* Pardo Bazán, *El Tesoro de Gastón.*

5 units, winter and spring quarters
(ALLEN, COESTER) (winter) MTWThF 9; (WILLIAMS) (spring) MTWTh F 11
winter, 80 (2 sections); spring, 41

B23. Second-Year Spanish.—(Continued). Composition and conversation (TTh); oral drill in conversation and the mastery of a correct pronunciation; short stories and original compositions; advanced Spanish grammar. Text: Espinosa, *Spanish Composition and Conversation*, pages 97–200.

Reading and interpretation of Spanish texts (MWF): Martínez Sierra, *Canción de Cuna;* Coester, *Cuentos de la América Española.*

5 units, spring quarter (ALLEN, COESTER) MTWThF 9, 10
spring, 62 (2 sections)

B26. Spanish Scientific Reading.—Intended for engineers. Prerequisite: B3.

3 units, autumn quarter (DELBON) MWF 11
autumn, 50

B27. Spanish Scientific Reading.—(Continued.)

3 units, winter quarter (COESTER) MWF 11
winter, 45

B28. Spanish Scientific Reading.—(Continued.)

3 units, spring quarter (COESTER) MWF 11
spring, 19

B30. Directed Reading.

1 or 2 units per quarter
autumn, 52 (3 groups); winter, 28 (2 groups); spring, 61 (2 groups); summer, 2

B40. Spanish Conversation.—Easy Spanish stories and exercises. Prerequisite: B3, or equivalent.

1 unit, summer quarter, 2d half (ESPINOSA) MWF 11
summer, 6

B41. Modern Spanish Reading.
3 units, summer quarter (VERTREES)
summer, 5

B80. Spanish Pronunciation.—Lectures and practical exercises in the elements of Spanish pronunciation. Open to all students of Spanish. Should be taken by Spanish majors in the first year.
2 units, autumn quarter (ESPINOSA) TTh 10

II. ADVANCED AND GRADUATE COURSES

B101. Commercial Spanish.—Letter-writing and introduction to commercial practice. Students electing this course are expected to take also B102. Prerequisite: B23.
3 units, autumn quarter (COESTER) MWF 9
3 units, summer quarter (UMPHREY) MWF 10
autumn, 12; summer, 4

B102. Commercial Spanish.—Letter-writing continued; study of commercial documents; writing of advertisements and circular letters. Prerequisite: B101, or equivalent.
3 units, winter quarter (COESTER) MWF 9
winter, 4

B111. Spanish Composition and Conversation: Advanced.—Review of grammar, with reading and interpretation of literary texts; oral and written reproduction of short stories and literary material; original exercises in composition. Prerequisites: Courses B21, B22, B23.
3 units, autumn and summer quarters
(ESPINOSA) (autumn) MWF 9, 10; (summer) MWF 10
autumn, 27; summer, 18

B112. Spanish Composition and Conversation: Advanced.—(Continued.) Prerequisite: B111.
3 units, winter quarter (ESPINOSA) MWF 10
winter, 22

B113. Spanish Composition and Conversation: Advanced.—(Continued). Translation into Spanish of select English prose. Prerequisite: B112.
3 units, spring quarter (ALLEN) MWF 10
autumn, 14; spring, 11

B121. Curso de composición y estilo.—En este curso se estudian algunas obras literarias en prosa para modelos de estilo. Composiciones originales cada semana. Gramática de referencia: Bello-Cuervo, *Grammática de la Lengua Castellana.* Prerequisite: B113.
3 units (ESPINOSA) [Not given in 1923–24]

B122. Curso de composición y estilo.—(Continuación).
3 units (ESPINOSA) [Not given in 1923–24]

B123. Curso de composición y estilo.—(Continuación).
3 units (ESPINOSA) [Not given in 1923–24]

B130. Spanish Classics.—A study of the principal authors of the classical period. Reading of representative texts from Cervantes, Lope de Vega, Calderón, Alarcón, Tirso de Molina, as well as selections from

Ford's *A Spanish Anthology*. Open to students who have completed courses B21, B22, B23, or their equivalents.
4 units, autumn quarter (ALLEN) MTWF 11
autumn, 18

B138. Modern Spanish Dramatists.—A study of Galdós, Benavente, Martínez Sierra and others. Lectures in English with assigned readings in English or Spanish. Open to juniors and seniors in all departments.
2 units (ESPINOSA) [Not given in 1923–24]

B140. Spanish Literature.—Outline course. Fitz-Maurice Kelly: *Historia de la literatura española*. Lectures and recitations. Prerequisite: B130.
3 or 5 units, winter and summer quarters
(ALLEN) (winter) TTh 3:05–4:30; (UMP[REY) (summer) MWF 8
winter, 21; summer, 14

B141. Teatro Español Contemporáneo.—(*a*) Breve resumen de la historia del teatro español en el siglo XIX: Rivas, Gutiérrez, Zorilla, Bretón de los Herreros, Ayala, Echegaray. (*b*) Estudio de los dramáticos contemporáneos, con atención especial a Galdós, Jacinto Benavente, los Quinteros, Eduardo Marquina y Martínez Sierra. Prerequisites: B21, B22, B23, or their equivalent.
3 or 5 units, winter quarter (ESPINOSA) MWF 9
winter, 8

B142. Modern Spanish Novel.—A study of the modern Spanish novel and its relation to the development of the novel in France and other European countries. Lectures and collateral readings. Prerequisites: B21, B22, B23, or their equivalents.
3 units, summer quarter (ALLEN) MWF 1:05–2:05
spring, 22

B143. Early Spanish Lyric Poetry.—A study of the various schools of lyric poets, as the Galacian, the Italian, the National, etc. Prerequisite: B130.
3 units (ALLEN) [Not given in 1923–24]

B144. Modern Spanish Lyrics.—Prerequisites: B21, B22, B23, or their equivalents.
3 units, winter quarter (ALLEN) [Not given in 1923–24]

B152. Life and Literature in South America.—A course of general information on the civilization of Spanish America, with special attention to the intellectual and cultural activities. Lectures, discussions, and reports in English. Collateral readings in Spanish or English at the option of the student. Open to all students.
3 units, summer quarter (UMPHREY) MWF 9
summer, 19

B153. Spanish-American Literature.—General outline. The writings of Spanish Americans studied from the point of view of the nationality of the writers and as the product of differing political, social, and geographic conditions. Prerequisite: B23.
3 units, autumn quarter (COESTER) MWF 10
autumn, 7

B154. Argentine Literature.—The aim of this course is to acquaint the student with the history and mental characteristics of the Argentines through the medium of their own literary productions. Prerequisite: B23.
3 units, winter quarter (COESTER) [Not given in 1923–24]

B155. The Modernist Movement in America and Spain.—Rubén Darío, Gutiérrez Nájera, Silva, Chocano and their influence on Spanish lyric poets since 1898. Prerequisite: B111, or equivalent.
3 units, spring quarter (COESTER) MWF 9
spring, 12

B162. Spanish Literature.—In the Eighteenth Century.
3 units (ALLEN) [Not given in 1923–24]

B188. Fonética Española.—Conferencias y ejercicios prácticos. Navarro Tomás, *Manual de Pronunciación Española.*
2 units, summer quarter, first half (ESPINOSA) MTWTh 11
summer, 20

B200. Problems of Teaching Spanish.—A consideration of the important questions of Spanish pronunciation, grammar, reading, and literary interpretations, together with a discussion of the general questions of methods of teaching as applied to the teaching of elementary and advanced Spanish. Pedagogical bibliography and school texts. Practice teaching.
3 units, summer quarter (ESPINOSA)
summer, 2

III. PRIMARILY FOR GRADUATES

B201. Introduction to the Study of Old Spanish.—Lectures on old Spanish phonology and morphology, with linguistic exercises based on *El Cantar de Mío Cid.* Ford, *Old Spanish Readings.*
3 units, winter quarter (ESPINOSA) MWF 1:05
winter, 13

B202. Spanish Historical Grammar.—Lectures and study of old Spanish texts.
3 units (ESPINOSA) [Not given in 1923–24]

B204. Old Spanish Literature.—From the earliest times to the beginning of the Fifteenth Century. Lectures, reading of texts, assigned topics.
3 units, autumn quarter (ALLEN) [Not given in 1923–24]
autumn, 6

B240. Graduate Thesis.
3 to 5 units per quarter
winter, 3; spring, 3

B241. Origins of Spanish Drama.—A history of the drama from the earliest times to its full development with Lope de Vega. Lectures and collateral reading.
3 units, autumn quarter (ALLEN) MWF 2:05–3:05
autumn, 12

B250. Spanish Seminar.—Old Spanish Ballads. Lectures and investigations on special topics.
3 units (ESPINOSA) [Not given in 1923–24]

B251. Calderón.—Lectures and assigned topics.
3 units (ALLEN) [Not given in 1923–24]

B252. Lope de Vega.—Lectures and assigned topics.
3 units (ALLEN) [Not given in 1923 24]

B253. The Classical Dramatists.—Tirso de Molina, Ruiz de Alarcón, Rojas Zorrilla and Moreto.
3 units, winter quarter (ALLEN) W 2:05–4:05
winter, 7

B254. Cervantes.—Lectures and assigned topics.
3 units (ALLEN) [Not given in 1923–24]

C. ITALIAN

I. ELEMENTARY AND INTERMEDIATE COURSES

C1. Elementary Italian.—Wilkins, *First Italian Book;* Wilkins, *Italia.*
5 units, autumn quarter (STAUF) MTWThF 8
autumn, 21

C2. Elementary Italian.—(Continued). Grandgent's *Italian Grammar.* Conversation. Wilkins and Altrocchi, *Italian Short Stories.* Goggio, *Due Commedie Moderne.* Prerequisite: C1, or equivalent.
5 units, winter quarter (STAUF) MTWThF 8
winter, 12

C3. Elementary Italian.—(Continued). Review of grammar; composition and conversation. Goldoni, *La Locandiera.* Manzoni, *I Promessi Sposi* (edit. Geddes and Wilkins). Prerequisite: C2, or equivalent.
5 units, spring quarter (STAUF) MTWThF 8
spring, 10

C21. Second-Year Italian.—Review of grammar; composition and conversation. Reading of selected prose and poetry of the nineteenth and twentieth centuries, with a minimum of translation and particular attention to pronunciation. Collateral reading and reports. Prerequisite: C3, or equivalent.
3 units, autumn quarter (ANDERSON) ThF 2:05–3:30
autumn, 5

C22. Second-Year Italian.—(Continued). Prerequisite: C21, or equivalent.
3 units, winter quarter (SMITH) M 3:05–4:30; F 2:05–3:30
winter, 3

C23. Second-Year Italian.—(Continued). Prerequisite: C22, or equivalent.
3 units, spring quarter (SMITH) MWF 2:05
spring, 4

II. ADVANCED AND GRADUATE COURSES

C140. Lectures on Italian Literature.—Lectures in English on twelve Italian writers. Reading of their works in translation. No prerequisites.
2 units, spring quarter (ANDERSON) [Not given in 1923–24]
summer, 1

C150. Dante and the Divine Comedy.—Reading and interpretation of the *Divine Comedy* in English; lectures on Dante and the *Divine Comedy,*

and the principal problems of medieval life and thought reflected in the poem. Outside reading and reports. Open to juniors and seniors in all departments.
3 units, spring quarter (JOHNSTON) MWF 10
spring, 24

C151. Advanced Italian.—Dante, *La Divina Commedia.* Study and interpretation of the text; discussion of the literary problems of the poem.
3 units, autumn quarter (JOHNSTON) [Not given in 1923–24]

C152. Advanced Italian.—(Continued).
3 units, winter quarter (JOHNSTON) [Not given in 1923–24]

C153. Advanced Italian.—(Continued).
3 units (JOHNSTON) [Not given in 1923–24]

C170. Petrarch and Boccaccio.—Lectures. Reading and interpretation of selections from their works. D'Ancona e Bacci, *Manuale della Letteratura Italiana,* vol. I.
2 units, winter quarter (SMITH) MW 2:05
winter, 2

C171. Italian Classics of the Fifteenth and Sixteenth Centuries.—Reading and interpretation of representative selections.
2 units (SMITH) [Not given in 1923–24]

D. PORTUGUESE

D1. Elementary Portuguese.—Drill on pronunciation; elements of grammar; reading of easy texts.
5 units, autumn quarter [Not given in 1923–24]

D2. Elementary Portuguese.—(Continued). Grammar; composition; conversation; reading. Prerequisite: D1, or equivalent.
5 units, winter quarter [Not given in 1923–24]

D3. Elementary Portuguese.—(Continued). Prerequisite: D2, or equivalent.
5 units, spring quarter [Not given in 1923–24]

E. GENERAL ROMANCE PHILOLOGY

PRIMARILY FOR GRADUATES

E201. Phonetics.—Lectures on general phonetics and on the principles of linguistic change, with exercises based on the most familiar ancient and modern languages.
3 units, winter quarter (ANDERSON) TTh 2–3:30
winter, 10

E202. The Romantic Movement.—Lectures in English giving a comparative view of romanticism in French, Spanish, and Spanish American literatures; assigned readings in English, French, or Spanish to meet the needs of the student. Open to graduates and undergraduates.
3 units, spring quarter (COESTER) [Not given in 1923–24]

E210. Introduction to the Study of Old Provençal.—Reading of selected passages from Appel's *Provenzalische Chrestomathie,* with a study of old Provençal phonology and morphology.
2 units (ANDERSON) TTh 2:05
spring, 3

E211. Romance Versification.—The fundamental principles of Romance verse structure with particular attention to French and Spanish; lectures and practical exercises.
3 units, summer quarter (ESPINOSA) MWF 1:05
summer, 10

E220. Vulgar Latin and Introduction to Romance Philology.—The phonology and morphology of Vulgar Latin: a study of Vulgar Latin texts of the Sixth, Seventh, and Eighth centuries, showing the development of Latin into Romance, especially Spanish, French, and Italian.
3 units, autumn quarter (ESPINOSA) TTh 1:05
autumn, 9

E221. Petronius.—(See Course B138 in the Department of Classical Literature.)

SLAVIC

HENRY LANZ, Assistant in Instruction.

SLAVIC LITERATURE

(The following courses do not require a knowledge of any language other than English.)

C1. Slavic Literature.—It is the object of this course to give a brief account of the folklore and literature of Slavic nations such as Bohemia, Servia, Bulgaria, and Poland, in connection with their history and their religious development. Outside reading and reports.
2 units, autumn and spring quarters (LANZ) TTh 9
autumn, 51; spring, 37; summer, 14

C2. History of Russian Literature.—The development of literature in Russia since the early Biliny period to the death of Gogol (1852). Special attention will be given throughout to the relations of Russian literature to social and political conditions, philosophy, and religion. Lectures and reading.
3 units, autumn and spring quarters (LANZ) MWF 11
autumn, 12; winter, 18

C3. History of Russian Literature.—(Continuation of C2). The modern Russian literature, covering the works of Turgenev, Goncharov, Dostoevsky, Tolstoy, and others. Mutual dependence between Russia and West-European literatures will be particularly emphasized.
3 units, winter and summer quarters MWF 11

C100. Leo Tolstoy.—His life and work.
2 units, autumn and spring quarters (LANZ) TTh 11
spring, 48; summer, 9

C101. Theodore Dostoevsky.—His life and work.
2 units, winter and summer quarters TTh 11
winter, 16

Slavic Languages

A1. Elementary Russian.—It is the object of this course to put the students in possession of the elements of the Russian language. Beginning with a study of the alphabet, it covers the course in morphology, syntax, simple conversation, and reading of the easy Russian texts. (Short stories of Leo Tolstoy). Bondar, *Simplified Russian Method.*
4 units, autumn quarter (Lanz) MTThF 8
autumn, 3

A2. Elementary Russian.—(Continued.)—The study of the aspects of the verbs and advanced practice in conversation and reading.
4 units, winter quarter (Lanz) MTThF 8
winter, 2

A3. Elementary Russian.—(Continued.)—Thorough review of grammer; reading and conversation (Bondar).
4 units, spring quarter (Lanz) MTThF 8
spring, 2

A4. Commercial Russian.—The object of this course is merely practical; it is intended to put the students in possession of the commercial vocabulary and make them able to transact business in the Russian language. Special attention will be given to the composition of business letters. Prerequisites: Russian A1, A2, A3.
4 units, summer quarter (Lanz) MTThF 8

A5. Individual Work.—Translation of documents in the Hoover collection.
(Lanz) [By arrangement]
winter, 4

A5a. Russian Conversation.
(Lanz)
summer, 2

A6. Seminar.
(Lanz)
autumn, 2; summer, 1

A21. Second-Year Russian.—Reading of Pushkin and Turgenev. Practice in conversation and composition on the basis of the material read. Forbes, *Russian Grammar.*
3 units, autumn quarter (Lanz) MWF 9

A22. Second Year Russian.—Chekhov, *Stories.*
3 units, winter quarter (Lanz) MWF 9
winter, 1; spring, 1

A23. Second-Year Russian.—Reading of modern prose and poetry.
3 units, spring quarter (Lanz) MWF 9

A131. Third-Year Russian.—Individual work.
3 units, autumn quarter (Lanz) [By arrangement]

A132. Third-Year Russian.—Individual work.
3 units, winter quarter (Lanz) [By arrangement]

A133. Third-Year Russian.—Individual work.
3 units, spring quarter (Lanz) [By arrangement]

A141. Fourth-Year Russian.
(Lanz)
summer, 1

ZOOLOGY

CHARLES HENRY GILBERT, HAROLD HEATH, GEORGE CLINTON PRICE, Professors.
WALTER KENRICK FISHER, JOHN OTTERBEIN SNYDER, Associate Professors.
EDWIN CHAPIN STARKS, Assistant Professor.

[**General Biology.**—See under Biology, p. 145.]

(Courses 1 and 2 may be undertaken without previous preparation in Zoology.)

1. General Zoology.—A laboratory course involving the study of representatives of the principal groups of animals, with lectures on their structure and classification and on the general laws of biology which they illustrate.

5 units, autumn, winter, and summer quarters (PRICE, STARKS, HEATH)
(PRICE) (autumn); (STARKS) (winter)
(HEATH) (summer) Hopkins Marine Station
autumn, 40; winter, 20

2. The Vertebrates.—A general course in the classification of vertebrate animals, with studies in their habits and the geographical distribution of species. The course is largely devoted to birds, and includes field excursions besides observations of live animals in the laboratory.

5 units, spring quarter (SNYDER) MTWThF 1:15–3:45
spring, 16

100. The Classification and Ecology of Marine Invertebrates.—Classification, associations, distribution, and habits. The object of this course is to give the student the widest possible acquaintance with the animals which live along shore and in the plankton of Monterey Bay.

5 units, summer quarter (Hopkins Marine Station)
(FISHER) Lab. MTWThF

101. The Invertebrates.—Following Course 1 and designed to give the student a broader knowledge of the morphology and relationships of the more important invertebrate groups.

5 units, autumn quarter (HEATH) MTWThF
autumn, 9

102. Invertebrate Embryology.—A study of segmentation, the formation of the germ layers, with certain phases of the later development, including the significance of larval forms and the relationships of the principal phyla. Prerequisites: Courses 1 and 101.

3 units, spring quarter (HEATH)
winter, 1

201. Advanced Work on Invertebrates.—Original investigation of problems connected with anatomy and embryology of invertebrates.

3 to 5 units, autumn, winter, and spring quarters (HEATH) [By arrangement]
autumn, 4; winter, 2; spring, 2

202. Research Work on Invertebrates.—Prosecution of special duties with reference to the classification, anatomy, and life history of invertebrates.

autumn, winter, spring, and summer quarters [By arrangement]
(FISHER) (Summer quarter at Hopkins Marine Station)
winter, 1

103. Advanced Vertebrates.—Advanced studies in systematic vertebrate zoology, including practice in museum methods, in field observations, and in the collection and preparation of specimens with data. Prerequisite: Course 2.

3 to 5 units, spring quarter (SNYDER) MTWThF

104. Comparative Anatomy of the Vertebrates.—A detailed examination of vertebrate morphology, including dissection of representatives of the several classes of vertebrates, with comparative studies in vertebrate osteology, the nervous and circulatory systems. Prerequisite: Course 1.

5 units, winter and spring quarters (SNYDER, STARKS)
(SNYDER) (winter) MTWThF 1:15–4:15; (STARKS) (spring) MTWThF 1:15–4:15
autumn, 1; winter, 32; spring, 17

105. Mammalian Anatonmy.—For students who have had Course 104 or its equivalent. Prerequisite: Course 104.

3 to 5 units, autumn quarter [Forenoon hours by arrangement]
(STARKS) MTWThF
spring, 2

106. Vertebrate Embryology.—The development of the chick through the first three days of incubation, and the later stages in the development of the mammal. Prerequisite: Course 1.

5 units, winter and spring quarters (PRICE) MTWThF
autumn, 8; winter, 28; spring, 37

107. Primitive Chordates.—Amphioxus, the tunicates, and the lampreys. Open to students who have had Course 104 or 106.

5 units, autumn quarter (STARKS) [Forenoon hours by arrangement]
autumn, 3

108. Fishes.—An examination of the larger groups of fishes, with practical work in the discrimination of species.

5 units, winter and spring quarters (STARKS) MTWThF
winter, 1

203. Advanced Ichthyology.—Special problems in the morphology and classification of fishes, given to advanced students prepared for such work.

2 to 5 units, autumn, winter, and spring quarters
(STARKS, GILBERT) [By arrangement]

109. Journal Club.—Open to seniors and graduate students.

4 units, winter quarter (GILBERT) [By arrangement]

Major students, before graduation, must complete Courses 1, 101, 104, 106, 109; Animal Classification 2, 108, 201, or Entomology 3, or some equivalent; Elementary Botany 1, 2, or 3; Elementary Entomology 1*a*. One quarter at the Hopkins Marine Station is strongly recommended. Substitution of other courses is permitted in special cases. Course 1, General Zoology, with at least one other five-unit course in Zoology, is to be completed by major students in this department before their junior year.

Work for graduate and special students is laid out in accordance with their individual needs and preferences.

Students who look forward to the study of medicine may take Zoology for their major subject and receive the A.B. degree at the close of a four years' course which shall also contain the first year in medicine. The

following courses in Zoology are required of such students: Zoology 1, 5 units; Invertebrate Morphology, 5 units; Comparative Anatomy of the Vertebrates, 5 units; Vertebrate Embryology, 5 units.

The Teacher's Recommendation.—The department recommendation for the High School Teacher's Certificate in Zoology requires the completion of the following courses: Zoology as a major; Zoology 1 (General), 5 units; 101 (Invertebrates), 5 units; 2 (Vertebrates), 5 units; 104 (Comparative Anatomy of Vertebrates), 5 units; 106 (Vertebrate Embryology), 5 units; Entomology 1*a* (Elementary Entomology), 5 units; Physiology 101 or 102 (Elementary Physiology), 5 units. Total, 35 units. Zoology as a minor: Zoology 1, 2, 101, 104; Entomology 1*a*. Total, 25 units.
(Courses taken at the Hopkins Marine Station may be substituted for certain of those listed above.)

The Zoological Collections

The Zoological Museum contains a very full representation of the fishes of North America, including among others a valuable series of the deep-water fishes of the Pacific, with large collections from the West Indies, the Hawaiian Islands, Bering Sea, Japan, the coasts of Mexico and Central America, and the Galapágos Islands. The museum contains also a large representation of the reptiles, batrachians, birds, and mammals of California and adjoining states. The collection of marine invertebrates is rich in Pacific echinoderms and crustacea, and contains a good working nucleus in the other principal groups. The series of deep-sea forms is especially valuable.

Laboratory Fees.—$1 each quarter per unit of course.

ENTOMOLOGY

Rennie Wilbur Doane, Associate Professor.
Mary Isabel McCracken, Gordon Floyd Ferris, Assistant Professors.

Courses 1 to 5 are intended for beginning students in entomology and for the general student who wants to gain some knowledge of the structure, development, classification, adaptation, and economic importance of insects. These courses are open to Lower Division students. Many of the other courses while intended primarily for students majoring in entomology, may profitably be taken by students majoring in other departments.

Students majoring in entomology may, if they desire, lay particular emphasis upon the systematic, the biologic, or the economic side of the work, fitting themselves for teachers, investigators, or for museum work. At present the demand for economic entomologists is much greater than the supply, and as a rule a well-trained man quickly finds a place in the government, state, or county work, or with some of the firms engaged in the manufacture and sale of insecticides.

The constantly growing entomological collections contain authoritatively named specimens, accessible for comparison, in all of the orders of insects, the Hymenoptera, Lepidoptera, Diptera, Coccidae, Mallophaga and Anoplura being especially well represented. In addition to the systematic collections there are large series illustrating the development, hab-

its, and adaptations of insects, particularly those of economic importance.

Complete sets of all of the important entomological journals as well as many text and reference books and reprints of papers on various subjects relating to entomology, are to be found in the libraries.

The laboratories are well supplied with microscopes, photographic apparatus, and other equipment needed for entomological research, special provision being made for the work of graduate students.

A small experimental orchard, an apiary, and a lath house also add to the opportunities to do practical outside work.

Students majoring in entomology must obtain forty-five units of credit in entomology or its equivalent, and complete certain courses in zoology, botany, or physiology.

LABORATORY FEES.—For Course 102, $3.50; for other laboratory courses, $2.50 per quarter.

1a. Elementary Entomology.—An introduction to the study of entomology. Intended to give the student a general knowledge of the structure, development, and classification of the more important orders of insects. Laboratory work with occasional lectures. Open to all students.

5 units, autumn and *spring quarters (FERRIS) Forenoons
autumn, 51; winter, 3; spring, 61; summer, 32

1b. Elementary Entomology.—The minor orders and the internal anatomy of insects are dealt with in this course. Intended chiefly for entomology majors. Prerequisite: Course 1*a*, of which it is a continuation.

5 units, winter quarter (FERRIS) Forenoons
winter, 20; spring, 1; summer, 4

2. Morphology.—This course includes a study of insect structures from the point of view of adaptation (biology) and taxonomy, the aim being to lay a firm foundation for entomological studies. Laboratory work and occasional lectures.

Section *a*, primarily for majors in zoology and entomology or students in general biology; section *b*, primarily for pre-medical and bacteriological students who wish to acquire through the laboratory method a more intimate knowledge of insects of pathological importance. The course may be taken concurrently with Entomology 5.

3 to 5 units, autumn and winter quarters (MCCRACKEN) Forenoons
autumn, 4; winter, 2; summer, 1

3. Classification of Insects.—The purpose of this course is to increase the student's knowledge of the insect fauna and acquaint him with the aims and methods of systematic work. Should be preceded by Courses 1*a* or 2.

5 units, autumn, winter, and spring quarters (MCCRACKEN) Forenoons
autumn, 2; winter, 1; spring, 11; summer, 4

4. General Entomology and Insect Adaptations.—A course of lectures and demonstrations. Open to all students.

2 units, autumn quarter (DOANE) Lec. TTh 9

5. Insects and Disease.—A discussion of the insects that cause or disseminate some of the diseases in man and the domestic animals. Lectures and demonstrations. Open to students having some previous training in biology.

2 units, winter quarter (DOANE) TTh 9
winter, 81

100. Honey-Bee and Apiculture.—Study of the honey-bee, its structure and activities, with an introduction to practical bee-keeping through work in a small apiary. Students should consult instructor before registering in this course.

3 units, spring and *summer quarters (McCracken) TTh 9; TTh afternoons
spring, 14

101. Economic Entomology: Coccidae (Scale Insects).—A study of the classification, general biology, and economic relations of the scale insects, with particular attention to the more important injurious ones of the Pacific Coast. Field, laboratory, and bibliographic work, with occasional lectures.

3 units, winter quarter (Doane, Ferris) MWF afternoons
autumn, 1; winter, 3; spring, 5; summer, 2

102. Technique.—A course primarily in elementary histological technique and including a limited study of the fundamental tissues. Intended especially for Entomology and Zoology majors.

2 to 5 units, winter and *spring quarters (Ferris) [By arrangement]
winter, 3; spring, 2; summer, 1

103. Economic Entomology: Forest Insects.—A study of the insect enemies of forest and shade trees. The course includes field, laboratory, and bibliographic work.

3 units, autumn quarter (Doane) MWF afternoons

104. Economic Entomology: Orchard and Garden Insects.—A study of the principal injurious and beneficial insects of the orchard and garden. Includes field, laboratory, and bibliographic work, with occasional lectures. Should be preceded by Course 101.

3 units, spring quarter (Doane) MWF afternoons
spring, 5

105. Economic Entomology: Principles and Practice.—A course of lectures relating to the development of economic entomology and the methods of controlling some of the more important insect pests.

2 units, spring quarter (Doane) TTh 9
spring, 117

106. Principles of Nomenclature.—A series of lectures dealing with the principles of biological nomenclature. Intended to meet the needs of students from any of the biological departments.

1 unit, spring quarter (Ferris) W 4

107. Advanced Entomology.—Open only to Upper Classmen who are prepared to do advanced economic, systematic, or biologic work. Laboratory and field work.

autumn, winter, spring, and summer quarters
(Doane, McCracken, Ferris)
autumn, 43; winter, 4; spring, 6; summer, 3 [By arrangement]

108. Animal Genetics.—Discussion and demonstrations of the principles of heredity underlying modern practices in improvement of animals.

2 units, winter quarter (McCracken) Lec. TTh 11
winter, 11

109. Seminar in Genetics.—Open to senior and graduate students.

2 units, autumn, winter, and spring quarters (McCracken) [By arrangement]
spring, 8; summer, 1

110. Physiology of Arthropods.—Special problems involving laboratory work with insects or other Arthropods as material. Prerequisite: Physiology 9, or 103, or 109, or equivalent.
2 to 5 units, autumn, winter, or spring quarters
(BAUMBERGER, SHAFER, WEYMOUTH) [By arrangement]

111. Seminar in Entomology.—Open to senior and graduate students.
2 units, autumn, winter, or spring quarters
(DOANE, MCCRACKEN, FERRIS) [By arrangement]
autumn, 5

116. Bionomics.
2 units, autumn quarter (MCCRACKEN)
autumn, 123

201. Research.—Primarily for graduate students prepared to do research work in systematic biologic or economic entomology.
autumn, winter, spring, and summer quarters
(DOANE, MCCRACKEN, FERRIS) [By arrangement]
winter, 3 (2 groups); spring, 5 (3 groups); summer, 4 (2 groups)

MUSEUM AND ART GALLERY

LELAND STANFORD JUNIOR MUSEUM

PEDRO J. LEMOS, Director.

In 1880, Leland Stanford Junior, then eleven years of age, accompanied his parents on a trip through Europe, and collected numerous mementos of the places visited. In 1883, on a second visit, he began to pursue this object more ambitiously, and finally with the idea of establishing a museum. The Leland Stanford Junior Museum was designed by Mrs. Stanford as a memorial to perpetuate this idea, and the various collections are mainly her gift to the Museum.

The collection made by Leland Stanford Junior between 1880 and 1884 has been placed in two rooms, and in one room his own arrangement is reproduced in detail. In the room adjoining are found mementos of his early life. These two rooms contain especially Egyptian bronzes, Tanagra figurines, Greek and Roman glass, armor, mosaics, Sèvres and Dresden ware, and the like.

The Stanford Memorial Room contains collections of personal belongings pertaining to the founders of the University. Added to these are collections connected with the early days of the University, views of buildings in construction, and details of the mosaics used in the Memorial Church.

The Di Cesnola Collection contains five thousand pieces of Greek and Roman pottery and glass from the Island of Cyprus.

Another room contains the famous historical relic, *The Governor Stanford,* the first locomotive used on the Central Pacific Railroad, in 1864. A group of cases in this room contain collections related to early California history. The center case contains practically all the implements extant of the old Mission Dolores, presented by Don Pablo Vasquez, whose father was the last major-domo of the Mission. Included in the Mission collection are some extremely rare relics of Father Junipero Serra and of the Carmel and Santa Barbara Missions.

The American Indian Collection is made up of mound relics, Indian baskets, Indian Pueblo pottery, utensils, Alaskan canoes, totem poles, etc. In this room is also a display of material of the stone age purchased by Mrs. Stanford in Denmark.

The Ikeda Chinese and Japanese collection, purchased by Mrs. Stanford in 1904, comprises rare art material from the Orient.

In the Chinese and Japanese room there is exhibited a collection of bronzes, arms, china, lacquer, cabinets, musical instruments, rich embroideries, and specimens of wood-carving, including the Imperial bedroom set, a marvel in wood-carving and inlaid work; also the famous de Long Collection of Japanese rarities.

The Japanese Collection, purchased by Mrs. Stanford in 1902, consists of cloisonné, Satsuma, porcelain, embroideries, Buddhistic images and ivory carvings, and includes a large bronze Koro, over 150 years old. The Corean collection, the gift of Mr. Timothy Hopkins, contains costumes, household goods, cabinets, screens, etc.

One room contains the Anna Lathrop Hewes Collection of paintings, statuary, mosaic, etc. Ceramics collected by Mrs. Stanford include Sèvres, Dresden, Royal Berlin, Persian, Pompadour crystal, Bohemian, and numerous other wares.

The Egyptian Room contains: Egyptian stone carvings, alabaster canopias or jars, bronze, wooden, terra-cotta, and glazed statuettes, images, mummies, scarabs, and numberless other emblems, hand-woven linen and Coptic textile color designs, and original portrait paintings taken from mummy cases. This Egyptian material was collected for Mrs. Stanford by the Curator of the Cairo Museum, Emile Brusch Bey, and experted by Dr. Sayce the noted Egyptologist. This room also contains a case displaying a collection of very old and rare Babylonian tablets.

The upper floor of the Museum contains two large collections of paintings. One of these was collected by Mr. and Mrs. Stanford and includes original paintings of each member of the family, by such artists as Messionier and Bonnat, also original paintings by Benjamin West, Gustave Richter, William Keith and Thomas Hill. The other collection is loaned by Mr. and Mrs. Timothy Hopkins, and includes paintings by Sir Joshua Reynolds, Josef Israels, and J. J. Henner.

THOMAS WELTON STANFORD ART GALLERY

Pedro J. Lemos, Director.

The Thomas Welton Stanford Art Gallery is composed of four galleries designed for the exhibition of paintings and other works of art.

In the main galleries the collection of paintings donated by Thomas Welton Stanford is placed. Among these are pictures by Minderhout Hobbema, James Giles, R.S.A.; John Frederick Herring, Lienur, Van der Houten, Francis Snyders, W. J. Laidley, David Bates, John Yarley, Juliun M. Price, J. W. Ready, William Melby, James E. Meadows, Elijah Wal-

ton, F.G.S.; W. Henry, W. Koek-Koek, E. Wake Cook, T. R. Miles, Sr., John Glover, Herr Schnars-Alquist, Louis Buvelot, William Hart, William Shiels, R.S.A.; S. Bird, Patrick Nasmyth, Emil Bayard, Gerard Lairesse, C. Wimmer, Salvator Rosa, G. Koken, John Weenix, Bachman, Kobell, Jr., Charles Stuart, Heinrich Rasch, Melchoir Hondecooter, Marie Angelica Kaufman, Ten Kate, George Earl, Guardabassi, E. G. Lewis, and E. C. Curtiss.

The rear gallery has been planned for the exhibition of collections of paintings, etchings, and sculpture from eastern and foreign art centers. These exhibitions are announced from time to time as they are received.

LECTURES AND DEBATES

RAYMOND FRED WEST MEMORIAL LECTURES

In 1910 Mr. and Mrs. Fred West, of Seattle, Washington, presented to the University, in memory of their son, Raymond Fred West, a student of the University who died before the completion of his college course, the sum of ten thousand dollars, to be held as a fund in perpetual trust, for the establishment of a lectureship on a plan similar to the Dudleian Lectures at Harvard University.

"It is our wish that such lectures shall not form part of the usual college or university course, nor shall they be delivered by any professor or instructor in active service in the institution. Such lecturer may be a clergyman or a layman, a member of any ecclesiastical organization, or of none, but he should be a man of the highest personal character and of superior intellectual endowment. He shall be chosen by the Faculty and the Board of Trustees of said University in such manner as the said Board of Trustees may determine, but the appointment in any case shall be made at least six months before the delivery of said lectures. . . . The course of lectures shall be known as the 'Raymond Fred West Memorial Lectures on Immortality, Human Conduct, and Human Destiny.'"

The following general plan has been adopted by the University: The lectures are to be delivered in alternate years; the lecturer is to give at least three lectures; the lectures are to be published in book form within two years after delivery, the lecturer to have the option of publishing them himself, in which case the University will purchase a hundred copies, or of having the University publish them, in which case it will retain the copyright (in any case the manuscript of the lecturer is to be filed in the University archives); the honorarium to be decided in each case by the Board of Trustees, and unless otherwise ordered the entire earnings of the fund for the two years to be devoted to honorariums and to the purpose of publication; the lecturer is to be nominated by the President with the approval of the Advisory Board and the consent and ratification of the Board of Trustees.

These lectures have been given by Charles Edward Jefferson, Samuel McChord Crothers, Hastings Rashdall, Charles Lewis Slattery, John Dewey, Henry Osborn Taylor, Irving Babbitt, and Arthur Twining Hadley. The general subject of the last series, given April 22, 23, 24, 1924, was "The Conflict Between Liberty and Equality." The titles of the

lectures were "Industrial Problems and Political Ideals," "The Uses and Dangers of Property Right," and "The Uses and Dangers of Representative Government."

DEBATES

Intercollegiate debates, under the auspices of the Associated Students of the University, are held each year with the University of California, the University of Southern California, the University of Washington, and the University of Oregon. A local public speaking contest, in which speaking in the extemporaneous style is encouraged, usually occurs during the Autumn Quarter. The Associated Students of the University send a representative to take part in the Annual Pacific Coast Oratorical and Extemporaneous Contests held under the auspices of the Pacific Coast Public Speaking League. Stanford Freshmen meet California University Freshmen in dual debate in the Winter or Spring Quarter.

Debate societies within the University are three in number, Euphronia and Nestoria Societies composed of men, and Wranglers Society composed of women. These societies carry on debates among themselves and with similar societies in other institutions in the Bay region. Interest is being aroused in women's debate as an activity, and it is probable that women's debates with California and Mills College will be arranged in the near future.

Debate Trophies

Numerous permanent trophies are offered as debating awards. Euphronia Society is the donor of a loving cup to be awarded to the winner in a high school public speaking contest, conducted by the Society during the Spring Quarter. Euphronia and Nestoria Societies have joined to provide a cup for the annual Public Speaking Contest among the students of the University. Delta Theta Phi, the new law fraternity, signalized its advent to the Stanford campus by making available a similar cup for the winners of the strongly contested annual Nestoria-Euphronia-Wranglers' debate.

In March, 1923, Stanford University became a member of the newly formed Pacific Coast Public Speaking League, the purpose of which is to foster forensic endeavor among the several member institutions. The members of the Conference are: Washington State College, Whitman College, Reed College, the University of Oregon, Oregon Agricultural College, Stanford University, University of Southern California, and Willamette University.

California Triangular Debate

On the evening of January 24, 1924, Stanford University met the University of California in a triangular debate on the question:

"Resolved, That the California Criminal Syndicalism Act should be repealed." The decision was by vote of the audience. The Stanford affirmative team, composed of Thomas A. Bailey, '24, and Stanley Weigel, '26, met the University of California negative team in the Little Theatre and won the decision by a vote in the ratio of 8 to 1. An "open forum" followed in which members of the audience asked questions of the speakers. The debate was notable for the informal character of the speeches, and the intense interest aroused on the part of the audience.

The Stanford negative speakers met the University of Southern California team in Los Angeles on January 29, 1924. They were Bert Levit, '24, and Robert Littler, '25. After an exceedingly close and interesting debate the audience awarded a decision against the Stanford team, voting in the ratio of 2 to 1.

Stanford-Oregon-Washington Debate

"Resolved, That the United States should enter the World Court according to the plan of the late President Harding," was the question in the Pacific Coast League Debates held on March 6, 1924. Ronald Button, '25, and Robert Ernest Lewis, '25, debated the University of Washington team in Seattle, and after a hotly-contested debate lost by a judges' decision of 2 to 1. Button and Lewis upheld the negative in this discussion.

On the home platform, George Crocker, '26, and Percival I. V. Spencer, '25, maintaining the affirmative of the proposition, defeated the University of Oregon speakers. The judges of this debate were Professor Dwight E. Watkins of the University of California, Grant R. Bennet, attorney-at-law, San Jose, and Daniel C. Imboden, manager Three Cities Chamber of Commerce, San Mateo.

Joffre Debate

The Medaille Joffre, presented by Baron de Coubertin, for the purpose of encouraging the study and discussion, in California, of French history and politics, is awarded the student who, in the opinion of the judges, proves himself the best debater in a contest held for that purpose between Stanford University and the University of California.

Under the rules of this contest, the general subject for discussion in 1923–24, "French political policy since the war," was made known in January, 1924. The debate was held on the evening of April 9th, in Wheeler Auditorium, University of California. The particular phase of the question discussed was announced to the debaters two hours before the time set for the debate. The question was, "Resolved, That the

French system of military alliances is a menace to the peace of the world." Stanford was represented by Thomas Bailey, '24, Robert Littler, '25, and Stanley Weigel, '26. The judges were Attorneys John L. McNab and Percy V. Long of San Francisco and Mr. Thomas A. Rickard of Berkeley.

The medal was awarded to Robert Littler of Stanford, who defended France against imputations of military aggrandizement.

Stanford-California-College of the Pacific Freshman Debate

Debating the question, "Resolved, That the United States should recognize the Soviet government of Russia," the Stanford Freshmen won from the University of California for the third consecutive year, and lost their first debate with the College of the Pacific Freshmen. The Stanford affirmative team, composed of Raymond Bruce, Theodore Baer, and Lloyd Sullivan, met the California team in the Little Theater on April 14, 1924, while the negative team, composed of Craven Scott, Harold Peterson, and Rex Kramer, debated in San Jose.

Pacific Coast Extemporaneous Speaking Contest

On November 16, 1923, Robert Littler, '25, won second place in an extempore speech contest among Pacific Coast universities and colleges, members of the Pacific Coast Public Speaking League. The contest was held at Eugene, Oregon. The general topic announced early in the fall was "Criminal Syndicalism Laws." One hour before the contest sub-topics were drawn by lot, the sub-topic, "The Future of Criminal Syndicalism Laws," falling to the lot of Mr. Littler. The University of California was first, Washington State College third. Other entries were Idaho University, Oregon Agricultural College, Whitman College, Oregon University, and the University of Southern California.

Intersociety Debate

Debating the proposition, "Resolved, That Congress should adopt the Mellon Tax Plan," the Nestoria negative team, composed of Emmet McCaffery, '24, and Victor J. Harding, '26, secured a 2 to 1 decision of the judges over Bert Levit, '24, and Richard Jenkins, '25, upholding the affirmative for Euphronia. The debate was held during the Spring Quarter.

DEGREES CONFERRED

([1]October 5, 1923; [2]January 4, 1924; [3]April 4, 1924; June 23, 1924)

BACHELOR OF ARTS

BACTERIOLOGY AND EXPERIMENTAL PATHOLOGY

[3]Lillian Cottrell

[3]Gladys Newman
With distinction

[3]Dorothy Frances Porter

SCHOOL OF BIOLOGY

Charles Victor Barley

[3]Ralph Victor Ellis

John Matthew Murphy, Jr.

Elizabeth Peirce

[3]Muriel Stewart

BOTANY

Fremont Osbert Ballou

[2]Magnus Ingstrup Gregersen
With great distinction

CHEMISTRY

Frederick Leroy Anderson

[1]Howard Courtney Benedict, Jr.

[3]Kenneth William Brown

Dana Burks, Jr.
With distinction

[3]Michel de Cazotte

Clare Speelman Chaffee

[2]Lawrence Joseph Coulthurst

[1]Hazel Hetherington Dehy

Henry Carl Dellepiane

Wilson Fisk Douglass

Vance B. Errickson

Mervyn Julius Fuendeling

[2]Curtis Byron Gorham

James Broadbent Harker

William Guy Hart

[1]Gordon Bruce Hayes

[3]Joseph Blake Koepfli

[1]Warren Hamilton Kraft

[2]Osgood Stevens Lovekin
With great distinction

[3]Glenn Hazel McIntyre

[3]Dorothy Rolph McKee
With distinction

[3]Kingsley Roy Miller

William Kenneth Nelson

Ruth Anne Newlin

[2]Paul Edison Norris

Robert Barfe Peet

Milton Herman Saier

John Bear Stone

[1]Harold Henry Strain

[3]Charles Russel Timpany

Thayer Wardell Whitcomb

[3]Paul Curtis Wilbur
With distinction

CLASSICAL LITERATURE

Mary Madeline Brennan
[3]James Joseph Easly
[1]Vera May Reppy
[3]Helen Katherine Schardin
[2]Linda Van Norden
With great distinction

ECONOMICS

Lewis Plimpton Alabaster
James K. Anderson
[3]Werner Eugene Anderson
[2]Amy Violet Andrews
[3]Ralph Earl Barby
Mary Bateman
[3]Susan Elizabeth Beach
Howard Seymour Bissell
[1]John Ievers Bourke
[3]Chester Stanfield Bowen
[1]Roch William Bradshaw
William Lawrence Bradshaw
[1]Claus John Breier, Jr.
[2]Newton Brinkman
[2]Everett Brown
Paul Charles Bryan
[1]Donald Lowe Burdick
Daniel McPeak Campbell
Irene Augustine Campbell
George Holt Card
Robert Daniel Cavanaugh
Lewis Whitney Chandler
Howard Chandler Christie
[3]Howard Marshall Clark
Eugene Cyril Colgan
Russell Leslie Compton
Kenneth Riley Coppock
With distinction
Ralph Clifton Coppock, Jr.
[1]James Scholl Coulter
[3]Eileen Mae Cram
With great distinction
Charles Francis Daly
[2]Maynard Pomeroy Davison
Dudley Sargent DeGroot
With distinction
[3]Chesley McKinley Douglas
Samuel Pearson Dunmire
Alfred Thomas Dye
[3]Harry Jack Edwards
John Eugene Fishburn, Jr.
[1]Frederic Russell Fisher
[2]Herbert Gerdts Florcken
With great distinction
Walter Blair Foster
[2]Harold Clinton Geyer
[3]Russell Graves Gibson
[3]Frank Cooper Gilchriste
James Simon Gillen
Robert Louis Goldman
Neil P. Granger
[1]Richard Philip Gross
[1]Donald Welborn Hancock
[1]Jay Orlo Hayes, Jr.
Harford Holmes Hays
Barton Armin Hinckley
[2]Kingsley Kittredge Howarth
[2]Frederick Marshall Hughes
[3]Wells William Innes
Stewart Daniel James
Ruth Avis Jameson
[2]Paul Mitchell Joseph
Nelson Van Judah
[2]Francis Clifford Kahle
Francis Michael Kauffman
[3]Clarence Edward Kiggens
[1]Erick Everett Kolberg
[1]Freda Grandfield Kuhne
Lester Watts Langford
With distinction
Helen Jean Lawrence

Fred Barclay Leeds
John Rollin Leonard
Walter Herman Levison
[2]Leland Hermann Loewenson
Alfred Benjamin Loewenstein
[1]Henry Wadsworth Longfellow
George Everett Lusk
George William Lysaght
With great distinction
[1]Robert Laurence Macconel
John Donald McCready
[1]George Franklin McGill
[1]James Melvin MacRoberts
George Goodell Maine
Vieth Theodore Mertz
With distinction
[1]Charles William Midgley, Jr.
[1]Leland Wood Miller
Herbert Houston Mitchell
With distinction
Hugh Clarke Mixon
[1]Marion Strawn Monfort
Warren Glenn Moody
Cecil Martin Morris
Isabelle Genevieve Muzzey
Ruel Raymond Neiger
Carl Allen Newlin
[3]Dorothy Louise Overfelt
Katherine Mildred Overholtzer
Burton White Palmer
Harry Raymond Phelps
[3]John Edmund Phelps, Jr.
[2]Loyal James Podesta
[2]Joseph Clifford Prior
With distinction
[3]Myron Nelson Reed
Margaret Louise Richardson
[1]Robert Devotia Richardson
[1]Dean Ralph Ross
[3]James Gordon Ross
Martin Armel Row
Phillips Sumner Schneider
Theodore Edward Scribner
With distinction
[3]William Allan Senter, Jr.
[1]J. Howell Smith
Theodore John Steffen
[3]Harmon Bross Stephens
Howard Percy Stevens
Grace May Strobel
John Miles Teeguarden
[3]William Edward Tempel
Helen Terman
With distinction
Louis Caryll Thompson
[2]Walter Daniel Thornton
Cuthbert Pierce Tibbe
[2]Mathew Oscar Tobriner
With great distinction
[1]David Bogert Tuthill
Helen Tuthill
With distinction
[1]Harold Fay Vermilya
Phyllis Heath Walker
Russell Lincoln Walter
With distinction
Jerome Wilfred Watterson
[1]Frederick Sherwood Wheaton
Harold Benjamin Whitney
With distinction
Charles Daniels Wilkie
Florence Iola Williams
Roy Franklin Williamson
Francis Eugene Wilson
[1]Donald Witherbee
Tyler Francis Woodward
Raymond Orville Wright
[3]Cecil J. van Asch van Wyck
Russell Thorpe Yost
[1]Margaret Coleman Zane

ECONOMICS: JOURNALISM

Randolph Bradley Riter
[3]Alice Myrmida Smith
Archie Trojan Steele
With great distinction

EDUCATION

Jane Elizabeth Adams
With distinction
Tung-Ho Cheng
George Edward Craig
With distinction
Winifred Frances Estabrook
With distinction
[1]Frank Charles Fitzpatrick
[3]Frank Joseph Griffin
[1]Morris Winfield Hancock
[1]Roy Wesley Hendrick
Ching-Sze Huang
[1]Ross Ellsworth Kinney
Chiu Hang Lee
Margaret Elizabeth Noxon
Elmer Hubert Staffelbach
With distinction
[1]Edwin Belmont Tilton
[1]Howard O. Welty
With great distinction

EDUCATION: Graphic Art

[3]Ralston Carroll Alexander
[1]Alexandra Christine Bradshaw
Esther May Flowers
Elza Leslie Kiler
[1]Dorothy Louise Nay
[1]Leo Earl Pearson
Theodore Gregory VanDeusen

ENGINEERING

Civil Engineering

[3]Louis Harold Anderson
Michael Henry Antonacci
[1]Robert Neel Burnett
[3]Russell Graham Hackett
Kendall Reed Jenkins
M. Stanley Kimball
[3]Alexander Christopher Kotzias
Edward Stark Loder
John William McKinney
[3]Donald McKee
Spencer Munroe Munson, Jr.
With distinction
Chester Bonney Palmer
With distinction
John Gambell Rawhauser
With distinction
Charles Murrell Sayles
[3]Ralph Day Smith
David Selden Summers
Clarence Stanley Swabey
Orville H. Tucker, Jr.
With distinction
[3]Sidney Sutton VanKeuren
Joseph C. Waterman

Mechanical Engineering

Walter Stevens Alexander
Hammond Ashley
[3]Cecil Hastings Balmat
With great distinction
Arthur William Becker
Robison Eyre Booth
Kendall Myers Bower
John Cassel Buckwalter

[3]Harold L. Bumbaugh
[3]Edward William Butler
Edward Strong Campbell
Lloyd Edward Cooper
Samuel Randall Dows
[3]Lawrence Matthews Duryee
[2]Thomas Hubert Eggleston
[2]Richard William Faville
Donald Charles Follis
[2]Copeland Green
Harry Ashland Greene, Jr .
With great distinction
Irl Roy Harcourt
[2]James LeRoy Hawley
[3]Clarence Theodore Hesselmeyer
With great distinction
Clyde Randolph Higgins
Merrill S. Hugo
George Otto Koch
André Eisso Landweer
Donald William Perry Larnach
Charles Vincent Litton
With distinction
[3]Eldon Addington Long
With distinction
Marcus Lothrop
Holmes Clevenger Miller
Orion Garman Moe
[3]George Leander Mors
Patrick Foster Mumford
Alfred Talbot Patton
George Call Pearce
[1]Claude Edward Peavy
Alexis Everett Post
James Carleton Rear
Russell Roscoe Robison
Arnold John Rohner
With distinction
[3]Adam Pen-Tung Sah
With great distinction
Philip Forest Scofield
Harold Windham Scribner
Charles Lee Sidway
[3]Harold Sheerer Spaulding
[3]Harvey Charles Stoddard
[2]Edwin Thayer Todd
[1]David Joseph Trummer
[3]Robert Duncan Vial
[2]George Hall Walker
[3]Theodore Sammis Walker
Joseph Edward Wight

ENGLISH

Marsden Stratton Argall
Louise Josephine Barricklow
Eunice Katherine Biddle
Helen Rankin Brant
Esther Eggers Brown
Marion Bernice Carpenter
William George Carr
Ardys Thelo Dean
[2]Chester Newton Hess
Margaret Henrietta Hood
With distinction
Mary Elizabeth Hubbard
Carol Elizabeth Hyde
With distinction
Ernest James Kelley
[2]Scherl Maurice Levy
With great distinction
[3]Sara Gwendolyn MacGovern
[2]John Richard Malaby
[1]George Rankin Mitchell
With distinction
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Philip Newill
Maud O'Neil
[1]Harold Holmes Patterson
Earlene Phelps
[2]Frederick Raleigh Pond
With distinction
Theodore Allison Sherman
[1]Hugh Sanford Sutherland

Marion Esther Turner
Helen Louise Vogel
Margaret Ware
With great distinction
Alice Ellen Wilber
[3]Eva Mae Williams
[1]Caroline Willis
Kemp Julius Winkler

ENGLISH: Journalism

Marjorie Cohen
[2]Margaret Virginia Gibbons
With distinction
Barbara Miller
Marjorie Elizabeth Morehead
[1]Charles Henry Prior
Walter Price Robinson

ENGLISH: Public Speaking

Marjorie Belle Anderson

GEOLOGY

Beverly B. Bailard
[2]James McKean Bugbee
Francis Cameron
[2]Leslie Madison Clark
Kenneth Hartley Crandall
With distinction
[2]Richard Robbins Crandall
With distinction
[3]Lillian May Dobbel
[1]Leo Sanor Fox
[1]Charles Dickenson Gifford
[2]James Markley Hamill
[3]William Earl Heater
[3]Wright Elwood James
[1]William Johnson Kemnitzer
[2]James Millard Kirby
With distinction
Howard M. Kirk
[2]Harold Frederic Lynn
[3]Robert Emmett McDonald
James Adolphis Marsh
Alfred Richard Masters
[1]Louis Ramon Moretti
[2]Henry Mulryan
[2]Paul Chaney Murray
[1]Alfred Warren Nash
DeWitt Clark Rowland
With distinction
[3]Albert W. Sands
[3]John Baptist Sansone
Theodore Kremer Sawyer
David Bruce Seymour
[3]George James Smith
[1]Merrill Franklin Spurlock
Henry Gardiner Symonds
[2]Alvin Verender Taylor, Jr.
[3]Earle Alling Thomas
Murray Arthur Ward

GERMANIC LANGUAGES

[3]Dorothy Alderton Kellar
[1]Hatto Tappenbeck

HISTORY

Thomas Andrew Bailey
With great distinction
Rouie Alice Best
[1]Edwin Spencer Booth

[3]Carol Harriette Botsford
Laura Louise Butler
Don Marquis Chase
Mildred Conard
[2]Margaret Craven
With great distinction
[1]Alonzo Lawson Crawford
Dorothy Ellowene Delahoyde
[3]Dorothy Ehrhorn
Geraldine Franklin
Josephine Franklin
Florence Thompson Frederick
Marian Ruth Gower
Reginald Marion Hirschman
[2]Handel Whittaker Kelly
[3]Mabel Letitia McCanse
[1]John Richard O'Laughlin
Yvonne Alice Pasquale
With great distinction
[2]Howard Pease
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Elizabeth Frances Pooler
With great distinction
[2]George Townsend Powell
[2]Mervin Fred Rosenbaum
James Henry Rusk
With distinction
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Dorothy Jean Simonton
Jacob Slingerland
[3]Richard Louis Sloss
With distinction
Erna Smith
With distinction
[2]Frances Maude Summers
Dwight Warren Taylor
Donald Max Torrey
Ford Marlow Tussing
With great distinction
[1]Glenna Alice Wright

HISTORY: JOURNALISM

Mildred Dannebaum

MATHEMATICS

Eugene Ryan Booker
Homer Green Cain
[3]Mildred Dorris
Catherine D. Ewell
Leonard Frank Kellogg
Violet Virginia Knowles
[2]Mary Adele Newcomer
Luella Marie Rackliff
Clarence N. Westigard
Ko-Chuen Yang
With distinction

MILITARY SCIENCE AND TACTICS

[1]William Alston Bourn Hayne

PHILOSOPHY

[2]Jeannette Louise Booksin
Dorothy Brenholts
Roland Gilbert Davidson
Robert Allen Dixon
[1]Claude Heupgen
[1]Thomas Monroe Kildow
[2]Kenneth Gregg Robertson
Alice Caroline Roth

PHYSICS

Nelson Perry Case
Lloyd Edgar Graham
Bernard David Holbrook
With great distinction
[1]Morris Peck Taylor
With distinction

PHYSIOLOGY

Valdi Rounds Bush
Donald Logan Robertson

POLITICAL SCIENCE

[1]Martin De Vries
Charles Gross Fletcher
William Richard Gage
[2]Gregorio Caccam Patacsil
[2]Daniel Graves Ridley
[2]Leland Ghent Stanford
[1]Harry Raymond Tremaine
Tsong Hsun Tsui

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[3]Dave Ford Dozier
Lucas Wistar Empey
Walter Harold Farr
Mark Lewis Gerstle, Jr.
[1]Marion Owen Grinstead
[2]James Hilgesen
Charles Christian Johnson
Louis Ernest Jones
[3]Raymond Dean McBurney
John Edward McGuinness
Philip Wash McKenney
[2]Leon Melkonian
Philip Joseph Miller
Jack Beals Moore
With distinction
Francis Paul O'Hara
Edwin Alexander Patterson
Wayne E. Pollock
Robert Hale Rathbone
Claude Cecil Stafford
Artemas Jacob Strong
William Lyon Thomson
John Orren Vaughn
With great distinction

PRE-LEGAL CURRICULUM

[3]John Thieler Allmand, Jr.
Byron Jack Badham
[3]Otto Carl Barby
Bertrand Adolph Bley
With great distinction
[1]Walter Bates Booth
Bertrand Lewis Comparet
John Briggs Connolly
[2]Lorenz Costello
Harvey Mills Coverley
With distinction
Hope Cox
Frank Lee Crist
Leon Thomas David
Northcutt Ely
Lawrence Marcel Enos
Charles C. Fleischman
Lon Luvois Fuller
With great distinction

Daniel Dudley Gage, Jr.
[2]Thomas Gabbert Greene, Jr.
William Ernest Harcourt
C. Wilfred Hobson
With distinction
John Leslie Hofflund
William R. James
[1]Walter Paul Keller
Bertram William Levit
With great distinction
Frederic Sebastian Ludeke
Bernard Emmet Paul McCaffery
John Lyndon Mace
Henry Clayton Mack
With distinction
Ferdinand David Mannoccir II
Alfred Amasa Miller
With distinction
[1]Knox Miller
With distinction
Glenn DeWitt Newton
[2]Orlando Hunter Rhodes
John Daniel Richer
Milton Snyder Rosenfield
Richard Hunt Sampson
Carl Sumner Shoup
With distinction
Irving Murray Scott Smith
[3]Archie Alexander Smith
[2]Theodore Kesler Sterling
Arthur T. Stollmack
Roland Erwin Tognazzini
James Prentice Warner
Loton Dutreux Wells
With distinction
Helen Mason Whitney
Carleton Ball Wood
Vinton Tyrrell Woods
William Edward Wright
With distinction

PRE-MINING CURRICULUM

George Sidney Drysdale
With distinction
Edward Tilghman Farish
Leslie Gorrell
[2]Frederic Dooley Hanson
With distinction
[3]Frederick Russell McIntosh
[2]Irwin Walter Moody
[1]Paul Richard Pigott
[2]Glenn Eugene Pollard
[2]Dwight Conklin Roberts

PRE-NURSING CURRICULUM

Louise Amidon Cannon
With distinction
Lena Elvira Tavernetti

PSYCHOLOGY

[1]Madelaine Mary Dallas
Helen Pye Davidson
With great distinction
Elizabeth Ann Halbert
[1]Ruth Lilian Morris
Ethel Mae Shaull
With great distinction
Alta Williams

ROMANIC LANGUAGES

Everett Graves Bailie
Olivia Boezinger
[3]Ralph Emerson Cole
[3]Margaret Irenè Dressor

[2]Nellie Irene Fairchild
Sidney William Hawkins
[1]Dorothy Francine Herrington
[3]John Mill McClelland
Margaret Gilbert Mackey
[1]Marshall William Monroe
Marshall Elbert Nunn
[3]Lillian Parlier
[2]Blanch Emline Ross
[3]Paul Lewis Stayner
With distinction

ZOOLOGY

[1]Robert Paden Hays
[1]Robert William Siddle
[2]Dorothy Johanna Starks
With great distinction
[2]Margaret Emily White

ZOOLOGY: ENTOMOLOGY

[1]Joseph Conrad Chamberlain
With distinction

BACHELOR OF LAWS

Paul Eugene Glenn
[1]Homer William Patterson
[3]James Ogden Reavis
[3]Robert Lyman Templeton
A.B., Stanford

MASTER OF ARTS

BOTANY

Harry Alfred Borthwick
A.B., Stanford

CHEMISTRY

Howard Courtney Benedict, Jr.
A.B., Stanford
Elton Fred Cornell
A.B., Stanford
John Field II
A.B., Stanford
[2]Kenneth A. Gagos
A.B., Stanford
Mildred Jessica Hall
A.B., Stanford
Otto William Lang
B.S., State College of Washington
[1]Homer Edmund Likely
A.B., Stanford
Joseph Kelly Nicholes
A.B., Brigham Young University
Lovell Haskins Peirce
A.B., Colorado College
Francis Samuel Stewart
A.B., Stanford

Harold Henry Strain
A.B., Stanford
[3]William Edmond Sullivan
A.B., Stanford
Florence Oliver Whittier
A.B., Stanford
[1]Warren Webster Winchester
A.B., Franklin College

CLASSICAL LITERATURE

[1]Evelyn Atkinson Clement
A.B., College of the Pacific
Frances Helen Duff
A.B., College of the Pacific
Ralph C. Hofmeister
A.B., Cedarville College
[1]Nora Madelene Kelly
A.B., College of the Sacred Heart
[1]Florence Ellen Moulton
A.B., College of the Sacred Heart
[1]William Walsh
A.B., National University of Ireland

ECONOMICS

[1]Lewis Everett Severson
A.B., University of Kansas
[1]A. George Silverman
B.S., Harvard College
Edward Lyndon Stewart
B.S., University of Arizona
Elizabeth Grace Trowbridge
A.B., Mills College
[2]Walter Moore Warren
A.B., Stanford
Louise Wilber
A.B., Stanford
Wallace Wright
A.B., Dartmouth College

EDUCATION

[1]Harlan Quincy Acre
A.B., Indiana University
[1]J. Warren Ayer
A.B., Otterbein College
Ernest Patton Branson
A.B., College of Wooster
[1]Edmon Q. Brothers
A.B., Southwestern College
Jean Clark Cahoon
A.B., Smith College
William Virgil Cheek
A.B., Southwest Missouri State Teachers College
[1]Egbert Bailey Clark, Jr.
A.B., Stanford
[1]William Meriam Coman
A.B., Stanford
Emmett Ellis
A.B., Central Missouri State Teachers College
[3]Walter Edgar Elmer
B.L., University of Wisconsin
[1]William Alfred Goggin
Ph.B., Brown University
[1]Yao-Tung Hao
A.B., University of California
Edward Hevey, Jr.
A.B., Stanford
[1]Thomas Henry Howells
A.B., University of Utah
[3]Claude Melvin Johnson
A.B., Stanford
[1]John Stuart Jordan
A.B., University of Denver
George W. Patterson
A.B., Mississippi College
[1]Edwin Price
A.B., University of Southern California
Roy Jay Pryor
A.B., Stanford

[1]Charles Emmet Purviance
B.L., University of California
[3]Shulin L. Tan
A.B., Peking Government Teachers College
Helen I. Tarbell
A.B., University of South Dakota
[1]Edwin Adams Wells
A.B., Stanford
Liang Kung Yang
A.B., National University of Peking

EDUCATION: GRAPHIC ART

Marguerite Doris Bailey
A.B., Stanford

SCHOOL OF EDUCATION

Virginia Farnsworth Wasson
A.B., Stanford

ENGLISH

Ottilia Christine Anderson
A.B., Stanford
[1]Adelaide March Coburn
A.B., College of the Pacific
Elizabeth Victoria Fischer
A.B., Tulane University of Louisiana
[2]Adolf Ingram Frantz
A.B., Tabor College
Eleanor Daniel Glidden
A.B., Wheaton College
[2]Maurice Hicklin
A.B., University of Missouri
Archibald Anderson Hill
A.B., Pomona College
[1]Gertrude Edith Jennings
A.B., University of Redlands
[1]Marie Lucile Mitchell
A.B., University of Southern California
[1]Gail Sleeth
A.B., Universityof Oklahoma

ENTOMOLOGY

Brighton Clark Cain
A.B., Stanford
Joseph Conrad Chamberlin
A.B., Stanford
David Shepherd
A.B., University of Utah

GEOLOGY

Elmer Rossiter Baddley
A.B., University of Utah
[3]Fred Earle Buss
A.B., Brigham Young University
Carlton Mann Carson
A.B., Stanford
Charles Dickenson Gifford
A.B., Stanford
Donuil Marshall Hillis
A.B., Stanford
Asa A. Lee Mathews
A.B., Iowa State Teachers College
Delmer Lance Powers
A.B., University of Oregon
[1]Rémond Watson Richardson
A.B., Stanford
[3]Dale Darrell Sparks
A.B., Stanford

HISTORY

Robert Cedric Binkley
A.B., Stanford

Ayleen Ellsworth Goepfert
A.B., University of South Dakota

[1]Olive Carolyn Opgenorth
A.B., University of Wisconsin

[1]Clara Louise Osgood
A.B., University of Kansas

Paul Gerhardt Vigness
A.B., St. Olaf College

Oswald Henry Wedel
A.B., University of Arizona

Sarah Adele Young
A.B., Occidental College

PHARMACOLOGY

Maurice Lane Tainter
A.B., Stanford

PHILOSOPHY

[2]Murray Weir Rich
B.S., Colgate University

PHYSICS

Warren Whittier Nicholas
A.B., Stanford

POLITICAL SCIENCE

[1]Edward Irvin Cook
A.B., Ursinus College

PSYCHOLOGY

[3]George A. Brammer
A.B., Stanford

Muriel Whitbeck Brown
A.B., Wellesley College

[1]Mary Brooks Eyre
A.B., Stanford

[3]Franklin Smith Fearing
A.B., Stanford

[1]Ida Mary Margaret Lima
A.B., Stanford

ROMANIC LANGUAGES

Marie Lucy Bianchi
A.B., Stanford

Joseph Brunet
A.B., Stanford

[1]Truman Lawrence Donoho
A.B., Stanford

[2]Winifred Ferris
A.B., University of California

[1]Wesley Robertson Long
A.B., Boston University

Mattie M. Ramelli
A.B., University of California

[2]Maurine Grace Voerge
A.B., Stanford

ZOOLOGY

[3]Harrington Wells
A.B., Stanford

ENGINEER

CHEMICAL ENGINEERING

Charles Arata Grondona
A.B., Stanford

Allen A. Patterson
A.B., Stanford

Henry Franklin Sproull
A.B., Stanford

CIVIL ENGINEERING

Erle LeRoy Collins
A.B., Stanford

ELECTRICAL ENGINEERING

Leland Hermon Brown
A.B., Stanford

Joseph Snyder Carroll
B.S., University of Utah

[1]Paul Herbert Davis
A.B., Stanford

Pedro DeBoeck
Ingénieur Civil des Mines, University of Louvain

John Kiichi Imokawa
A.B., Stanford

Thomas Franklin Peterson
B.S., Cooper Union

[1]Jere W. Robinson, Jr.
A.B., Stanford

[2]George Taylor Royden
A.B., Stanford

[1]Leo Maynard Stauffer
A.B., Stanford

George Rose Stray
A.B., Stanford

Ulrich Stephen Thalheimer
A.B., Stanford

MECHANICAL ENGINEERING

[2]George Stuart Clark
A.B., Stanford

Lloyd Jackson Franklin
A.B., Stanford

Charles Herbert Smith
A.B., Stanford

MINING AND METALLURGY

Donald Dudley Hughes
A.B., University of Oklahoma

Donald Rider Knowlton
A.B., University of Colorado

Charles White Merrill
A.B., Stanford

John Branner Newsom
A.B., Stanford

[1]Thomas Drew Radcliffe
A.B., Stanford

[2]Merle Marion Repass
A.B., Stanford

William Ward Tamplin
A.B., Stanford

JURIS DOCTOR

[2]Ameglio Andreuccetti
A.B., University of Nevada

Abraham Haggberg Brazil
A.B., Stanford

[3]George Woodward Burch, Jr.
A.B., Stanford

Ralph Huffaker Cowing
A.B., Stanford

Thomas Miller Donohoe
A.B., Stanford

[1]Harold Altman Fendler
A.B., Stanford

[1]Ross Clark Fisher
A.B., Stanford

Joseph Vincent Gomes
A.B., Stanford

[3]John Allan Hendricks
B.S., Utah Agricultural College

[2]Clarence Martin Heublein
A.B., University of Wisconsin

[1]Jere Elwood Hurley
A.B., Stanford

Elizabeth Jane Kenney
A.B., Stanford

John Preston King
A.B., Stanford

[1]Karl Elias Leib
A.B., Stanford

Harry Edgar Lindersmith
A.B., Stanford

[2]Thomas Edward McDonald
A.B., Stanford

[2]Hugh Sanborn MacKinnon
A.B., Stanford

[1]Julius Mackson
A.B., Stanford

Norman F. T. Main
A.B., University of Missouri

[1]Laurence Butler Martin
A.B., Stanford

Homer Hamilton Mathews
B.S., State College of Washington

[3]Frederic Austin Millerd
A.B., Grinnell College
B.S., University of California

[1]Homer Irving Mitchell
A.B., Stanford

William Luther Murphey
A.B., University of Arizona

[1]Frank L. Murphy
Ph.B., University of Ottawa
A.B., St. Francis Xavier

[2]Howard Lloyd Nicholas
A.B., Stanford

[1]Raymond Meredith Robertson
A.B., Indiana University

[2]John Louis Rush
Ph.B., University of Denver

[2]Wesley Albert Seaman
A.B., Stanford

[2]Frances Elizabeth Sheldon
A.B., Stanford

Elizabeth Brewer Spilman
A.B., Stanford

[3]Stanley Archie Steindorf
A.B., Stanford

Dewey Loyal Strickler
A.B., Stanford

[2]Heaton Luse Wrenn
A.B., Stanford

Milton Edgar Wright
A.B., Stanford

DOCTOR OF MEDICINE

Emelie Eleanor Andersen
A.B., Stanford

Harry Vincent Baker
A.B., Stanford

Harold Jay Beaver
B.S., State College of Washington

Donald Vincent Burke
A.B., Stanford

Everett Carlson
A.B., Stanford

John Joseph Lalor Doyle
A.B., Stanford

Paul Warren Frame
B.S., University of Washington

Anna Comstock Franklin
A.B., Stanford

Percy Beales Gallegos
A.B., Stanford

Franklin Harold Gobar
A.B., Stanford

Hans Hartman
A.B., Stanford

Frances Irene Klingberg
A.B., University of Southern California

Margaret Eunice Lamson
A.B., University of Oregon

Charles Ashton Love, Jr.
A.B., Doane College

Roger Bain McKenzie
A.B., University of California

Homer Eugene Marston
A.B., Stanford

John Knox Morris, Jr.
A.B., Stanford

William Henry Murphy
A.B., Stanford

Burton Allen Myers
A.B., University of Kansas

Roy Frank Nelson
A.B., Knox College

Lewis Hampton Sanborn
A.B., Stanford

John Paul Sweeney
A.B., Stanford

Harold Spencer Trueman
A.B., Stanford

[1]Alfred Vincent Wepfer
B.S., University of California

Granville Numan Wood
LL.B., and A.B., Stanford

DOCTOR OF PHILOSOPHY

CHEMISTRY, BIOLOGICAL CHEMISTRY

[1]Louis Dunshee Elliott
A.B., Stanford

CHEMISTRY, PHYSIOLOGICAL CHEMISTRY

[1]Olaf Selmer Rask
A.B. and B. S., University of Minnesota

ORGANIC CHEMISTRY, PHYSICAL CHEMISTRY

James Stuart Blair
A.B. and A. M., University of Kansas

PHYSICAL CHEMISTRY, BIOCHEMISTRY

Charles Edward Maw
A.B., Stanford
M.S., University of Chicago

ECONOMICS, PHILOSOPHY

[1]Mervyn Crobaugh
A.B. and A.M., Stanford

EDUCATION, PHYSICS

Jennie Benson Wyman
A.B. and M.S., University of New Zealand; A.M., Stanford

ENGLISH, CLASSICAL LITERATURE

[3]John Daniel Cooke
A.B. and A.M., Stanford

ENGLISH, FRENCH

Germaine Henriette Collette
Doctorat en Philosophie et Lettres, University of Liège

Mary Anderson Hill
A.B., Vassar College, A.M., Stanford

ENGLISH, ITALIAN

Laura Virginia Schwartz
A.B., College of the Pacific
A.M., Stanford

FOOD RESEARCH, CHEMISTRY

Edith Hawley
B.S. and A.M., Columbia University

GEOLOGY, ECONOMIC GEOLOGY

Robin Willis
A.B. and A.M., Stanford

GEOLOGY, PETROGRAPHY

[3]Ralph Daniel Reed
B.S., Hiram College

GREEK, LATIN

John J. Doran
A.M., St. Mary's University

HISTORY, CLASSICAL LITERATURE

Edith Pierpont Stickney
A.B., Vassar College

HISTORY, ECONOMICS, PHILOSOPHY

[1]Rowland Hill Harvey
A.B. and A.M., University of Southern California

HISTORY, ECONOMICS, POLITICAL SCIENCE

[1]Robert Lee Jones
A.B., Southern Methodist University
A.M., University of Texas

PALEONTOLOGY, ECONOMIC GEOLOGY

[3]Leopoldo Alcaraz Faustino
B.E., Ohio State University
A.M., Stanford

PHARMACOLOGY, BIOCHEMISTRY

Floyd DeEds
A.B. and A.M., Western Reserve University

PHYSIOLOGY

[1]Ernest Herman Brunquist
A.B., Bates College
A.M., University of Michigan

PHYSIOLOGY, BIOLOGICAL CHEMISTRY, ZOOLOGY

Laurence Irving
A.B., Bowdoin College
A.M., Harvard University

PSYCHOLOGY, EDUCATION

[1]Maud Amanda Merrill
A.B., Oberlin College, A.M., Stanford

Ellen Blythe Sullivan
A.B., University of Southern California

ZOOLOGY, PHYSIOLOGY

[3]Willis Horton Rich
B.S., Lombard College
A.B. and A.M., Stanford

FELLOWS AND SCHOLARS

1923–24

FELLOWS

Thomas Welton Stanford Fellow in Psychic Research

John Edgar Coover ..... Stanford University
A.B., Stanford, 1904; A.M., 1905; Ph.D., 1912

Buckel Fellow in Education and Psychology

Karl Montague Cowdery ..... Oberlin, Ohio
A.B., Oberlin College, 1915; A.M., Stanford, 1922

Cubberley Fellow in School Administration

Ralph Waldo Swetman ..... Ellensburg, Washington
A.M., Columbia University, 1917

Lionel Remond Lenox Fellow in Chemistry

Oliver Wolcott Johnson (Chemistry) ..... Los Angeles
A.B., Stanford, 1921; Engineer, 1922

University Fellows

James Stuart Blair (Chemistry) ..... Los Angeles
A.B., University of Kansas; A.M., 1920; Ph.D., Stanford, 1924

Joseph Conrad Chamberlin (Entomology) ..... Salt Lake City, Utah
A.B., Stanford, 1923; A.M., 1924

Paul Hibbert Clyde (History) ..... Victoria, B. C.
A.B., Stanford, 1921; A.M., 1922

Catharine Morris Cox (Psychology) ..... Stanford University
A.B., Stanford, 1912; A.M., 1913

Harold William Hoots (Geology) ..... Lawrence, Kansas
B.S., University of Oklahoma, 1921

Laura Virginia Schwartz (English) ..... Honolulu, Hawaii
A.B., College of the Pacific, 1920; A.M., Stanford, 1921; Ph.D., 1924

Flora Murray Scott (Botany) ..... St. Andrews, Scotland
A.M., St. Andrews University, Scotland, 1911; B.Sc., 1914

Francis Albert Smith (Chemistry) ..... Palo Alto
A.B., Stanford, 1922; A.M., 1923

Teaching Fellows in Chemistry

Elton Fred Cornell (Chemistry) ..... Sunnyvale
A.B., Stanford, 1923; A.M., 1924

Ruth Vivia Fulton (Chemistry) ..... Vancouver, Washington
A.B., University of British Columbia, 1918; A.M., 1919

FELLOWS IN FOOD RESEARCH

Walter Edwards Beach (Economics) ..... Palo Alto
A.B., Stanford, 1922

Susan Sophia Burr (Economics) ..... Pawling, New York
A.B., Vassar College, 1920; A.M., Stanford, 1922

David Bruce Dill (Chemistry) ..... Seattle, Washington
B.S., Occidental College, 1913; A.M., Stanford, 1914

[1]Embree Rector Rose (Chemistry) ..... Lincoln, Indiana
A.B., Indiana University, 1919; A.M., 1922

Wallace Wright (Economics) ..... Hanover, New Hampshire
A.B., Dartmouth College, 1919; A.M., Stanford, 1924

SCHOLARS

ALUMNI JORDAN SCHOLARS

Stanley Dougan (Medicine) ..... Chesterhill, Ohio
B.S., Ohio University, 1914

Cletus S. Sullivan (Medicine) ..... Santa Clara
A.B., Stanford, 1922

THE GEORGE E. CROTHERS SCHOLAR

Edward Durley Landels (Law) ..... Los Altos
A.B., Stanford, 1923

THE CYRIL F. ELWELL SCHOLAR

Joseph Snyder Carroll (Electrical Engineering) ..... Salt Lake City, Utah
B.S., University of Utah, 1920; Engineer, Stanford, 1924

THE IRA S. LILLICK SCHOLAR

Harry Edgar Lindersmith (Law) ..... Eureka
A.B., Stanford, 1922

THE MRS. IRA S. LILLICK SCHOLAR

Algot Julius Peterson (Law) ..... Kingsbury
A.B., Stanford, 1923

THE WILLIAM IRVIN WEAVER SCHOLAR

Mildred Jessica Hall (Chemistry) ..... San Francisco
A.B., Stanford, 1923; A.M., 1924

UNIVERSITY SCHOLARS

[1]Leonard Aho (Education) ..... Astoria, Oregon
A.B., Stanford, 1920; A.M., 1921

Alfred Carleton Ambler (Medicine) ..... Palo Alto
A.B., Stanford, 1921

[23]James Harold Anglim (Law) ..... Represa
A.B., Stanford, 1923

Reo Bliss Armitstead (Medicine) ..... San Francisco
A.B., Stanford, 1921; A.M., 1923

Raymond Walker Barry (English) ..... Santa Barbara
A.B., Ohio Wesleyan University, 1915; A.M., Stanford, 1916

Emily M. Bartlett (Botany) ..... Orono, Maine
A.B., University of Maine, 1912; A.M., 1917

Joseph Brunet (French) ..... Portland, Oregon
A.B., Stanford, 1923

[12]Chester Cassel (Geology) ..... Los Angeles
A.B., Stanford, 1923

Mary Katherine Chase (French) ..... Stanford University
A.B., Stanford, 1922

Albert Kalem Chorbajian (Medicine) ..... Fresno
A.B., Stanford, 1921

Bernard Anthony Cody (Medicine) ..... San Francisco
A.B., Stanford, 1921

Montana Delbon (Spanish) ..... Turlock
A.B., Stanford, 1923

Muriel Emma Edwards (Medicine) ..... Wallace, Idaho
A.B., Stanford, 1921

[3]Magnus Ingstrup Gregersen (Botany) ..... Solvang
A.B., Stanford, 1924

Ernest Mosiah Hall (Medicine) ..... St. George, Utah
A.B., Brigham Young University, 1905; M.S., State College of Washington, 1916

Mary Anderson Hill (English) ..... San Diego
A.B., Vassar College, 1887; A.M., Stanford, 1922; Ph.D., 1924

Arthur Harold Kent (Law) ..... Los Angeles
A.B., University Southern California, 1917

Heinrich Klüver (Psychology) ..... Berlin, Germany
Seminary Legeberg, 1919

[3]Eldon A. Long (Law) ..... San Francisco
A.B., Stanford, 1924

Dell Theodore Lundquist (Medicine) ..... Middletown
A.B., Stanford, 1922

Frank Allan MacDonald (Medicine) ..... San Francisco
A.B., Stanford, 1921

[4]Helen Marburg (French) ..... Montclair, New Jersey
A.B., University of London, 1914

[12]Orpha Maust (Psychology) ..... Manhattan, Kansas
B.S., Kansas State Agricultural College, 1922

Ruth Camille Mermod (Medicine) ..... Winters
A.B., Mills College, 1922

Ruth Allen Nethercut (Medicine) ..... Lake Geneva, Wisconsin
A.B., Stanford, 1919

Oliver Edward Norton (Political Science) ..... San Jose
A.B., College of the Pacific, 1921

[4]Livingstone Porter (History) ..... Walla Walla, Washington
A.B., Harvard University, 1916

Gilford Glenn Rowland (Law) ..... Blackfoot, Idaho
A.B., Stanford, 1923

David Shepherd (Entomology) ..... Logan, Utah
A.B., University of Utah, 1918; A.M., Stanford, 1924

Russell Norman Shiras (Physics) ..... San Jose
A.B., College of the Pacific, 1923

Pearl Mabry Smith (Medicine) ..... Los Angeles
A.B., University of Wisconsin, 1914; A.M., 1916

Philip Grey Smith (Law) ..... Los Molinos
A.B., Stanford, 1923

Harry Alexander Somerfield (Medicine) ..... Cincinnati, Ohio
A.B., Stanford, 1921

Homer Pearson Struble (Medicine) ..... Penryn
A.B., Stanford, 1922

The Alumni Scholar

[1]Victor Frank Phillips (Lower Division) ..... Los Angeles

The B. P. O. E. Scholar

[3]Cranston W. Holman (Lower Division) ..... San Francisco

The Bertha Hyde Braly Scholar

Violet May Balcomb (History) ..... Palo Alto

The Colonial Dames Scholar

[3]David W. C. Harris (History) ..... Stanford University

The E. C. Converse Scholars

Thomas Andrew Bailey (Classical Literature) ..... Santa Clara
[23]Cecil Hastings Balmat (Mechanical Engineering) ..... Spokane, Wn.
Helen Katherine Broughall (History) ..... Salc Lake City, Utah
Willard Baxter Converse (Lower Division) ..... Palo Alto
[13]Arthur Grove Day (Lower Division) ..... Baldwin Park
Albert Goodwin (Lower Division) ..... Gilroy
Frank Carlyle Harmon (Lower Division) ..... Santa Clara
Phyllis Marie Hogan (Lower Division) ..... Fowler
Malcolm Nixon Jones (Lower Division) ..... San Bernardino
Allan James Meadowcroft (Lower Division) ..... Modesto
[1]Eugene Wladimir Silitch (Civil Engineering) ..... Petrograd, Russia
[23]John Orren Vaughn (Pre-Clinical) ..... Pasadena

The Mabel Hyde Cory Scholar

Meribeth Elliott Cameron (History) ..... Santa Monica

THE W. J. DICKEY SCHOLARS

Leonard Garrard Dobson (Lower Division) ..... Fresno
Kenneth Wade Thompson (Lower Division) ..... Fresno

THE HENRY G. DODDS SCHOLAR

Spencer Munroe Munson, Jr. (Civil Engineering) ..... Pasadena

THE ORRIN W. DUNN SCHOLARS

[1]Norman Dorset Dole (Lower Division) ..... Springfield, Missouri
[23]Theodore Raymond Haseltine (Civil Engineering) ..... Crockett

THE HIRAM C. FISK SCHOLAR

[12]Douglas Low King (Lower Division) ..... Palo Alto

THE GERTRUDE GARDINER SCHOLAR

Bertha Labaree Shedd (School of Biology) ..... San Jose

THE WILMER J. GROSS SCHOLAR

Frederic Dooley Hanson (Mining) ..... Chicago, Illinois

THE BRODIE G. HIGLEY SCHOLARS

[1]Magnus Ingstrup Gregersen (Botany) ..... Palo Alto
[3]Loton Dutreux Wells (Law) ..... San Francisco

THE E. W. HOPKINS SCHOLARS

Carolyn Frances Gooden (Lower Division) ..... Los Angeles
Sidney William Lewis (Lower Division) ..... Burlingame
Roy A. McClure (Lower Division) ..... San Bernardino
Lloyd Lawrence Sullivan (Lower Division) ..... Los Angeles
Edward Lindsey Winterbotham (Lower Division) ..... Riverside

THE CHARLES ANDREWS HUSTON MEMORIAL SCHOLAR

Wilson Craven (Law) ..... Bellingham, Washington

THE ERNEST A. LOVE SCHOLAR

Frederick Wallace Borden (Chemistry) ..... San Jose

THE MRS. MCDOWELL ROBLE CLUB SCHOLAR

Catharine D. Ewell (Mathematics) ..... Canon City, Colorado

THE DOROTHY METZ SCHOLAR

Donald Taylor Lauer (Law) ..... Payette, Idaho

THE NATIONAL ELECTRIC LIGHT ASSOCIATION SCHOLAR

[3]Leland Hermon Brown (Electrical Engineering) ..... Gilroy

THE MARCELLE HENRIETTE ROUILLER SCHOLARS

[23]Ward Ames Hill (Lower Division) ..... San Francisco
Marcel Alfred Lissman (Lower Division) ..... Sacramento

THE SAN MATEO HIGH SCHOOL REGIONAL SCHOLAR

Elizabeth Brewer Spilman (Law) ..... Palo Alto

THE LEON SLOSS SCHOLAR

Genevieve Susan Stichter (French) ..... Cupertino

THE SPERRY SCHOLAR

[3]David Shepherd (Entomology) ..... Logan, Utah

THE STANFORD WOMEN'S CLUB OF SAN FRANCISCO SCHOLAR

[3]Carol Klink (English) ..... San Francisco

THE JOHN MAXSON STILLMAN SCHOLAR

Alan Campbell Richardson (Chemistry) ..... Menlo Heights

THE LELAND STANFORD JUNIOR MEMORIAL SCHOLAR

Victor Julian Minner (Mining) ..... Carbondale, Illinois

STUDENTS

Name; home residence; major subject; status; University residence; postoffice. Postoffice in all cases *Stanford University* except where University residence is followed by initial letter of town ('p' indicates *Palo Alto* postoffice; 'Mayfield-m,' *Mayfield* postoffice, etc.). Street address *Palo Alto* or *Campus* unless otherwise named. The numbers (or letters) in italics after the university address are Stanford University postoffice box numbers (or box letters).

Status.—gr., graduate student; sp., special student. The figures after major subject indicate, first, the number of units of university work completed (and counting toward the 180 units required for graduation), no account being taken of 'deferred,' 'incomplete,' or 'conditioned' work; second, the number of grade points in excess of, or falling short of, the number of registered units ('+20', in excess; '—20', deficient). Where two numbers (separated by a point) precede the plus or minus sign, the first indicates the number of units of advanced or other credit to which the grade-point system does not apply; thus, 45·50+10 means that the total credit is 95 units, but that the +10 grade points are based upon the 50 units only.

The superior figure 1 indicates registration for the autumn quarter only; 2 indicates winter quarter only; 3 indicates spring quarter only; 4 indicates summer quarter only; 12 indicates autumn and winter quarters only; 23 indicates winter and spring quarters only; 13 indicates autumn and spring quarters only; 5 indicates autumn, winter, spring and summer quarters. The asterisk (*) indicates registered *in absentia;* the double dagger (‡) indicates unadjusted standing from other colleges and universities. (Phys.=Physics; Phyl.=Physiology.)

Abbe, Ellis Russell	Los Angeles	LD 47+29	236 Encina
Abbott, Cecil Vetus	Chrisney, Ind.	LD 24·83–5	21 Salvatierra-*896*
[5]de Aberle, Sophie A.B., Stanford, 1923	Palo Alto	Anat. gr.	252 Kingsley-p
[5]Acheson, Joseph Heron	Palo Alto	Econ. 45·82–1	212 Emerson
[23]Achilles, Theodore Carter	Morgan Hill	LD 21·77‡42	Beta Theta Pi-*1335*
[1]Ackerman, Douglas	Kealakekua, T.H.	LD 32–14	325 Waverley
[3]Ackley, Robert Langdon,	Los Angeles	LD ‡ 13+10	430 Encina
[5]Ackley, Ruth Dickinson	Los Angeles	LD 66·72+2	GammaPhiBeta-*1337*
Acres, Lawrence Hobbs	Los Angeles	LD 45·48+76	428 Encina-*1117*
Acres, Thomas Harold	Los Angeles	LD 49+84	428 Encina-*1117*
Adams,Bradford Clarendon	Los Angeles	Engl. 131+80	244 Toyon-*1351*
Adams, Donald Galen	Riverside	LD 99+51	114 Toyon-*1248*
Adams, Elmore Cox	Palo Alto	LD 80+17	Sigma Chi
Adams, Ephraim	Turlock	Law 143+98	134 Branner-*647*
Adams, James Lyman	Long Beach	LD 45+51	420 Encina
Adams, Jane Elizabeth A.B., Stanford, 1924	San Diego	Educ. 135·63+94	230 Roble
Adams, John Martin	Klamath Falls,Ore.	LD 67+13	Theta Chi
[5]Adams, John Payson	Oakland	LD 35–9	108 Encina-*1035*
[4]Adams, Karl F. A.B., Hamilton, 1908, A.M., 1917	Santa Cruz	Educ. gr.	12 Union
[4]Adams, Lyndel Dorcas A.B., Nevada, 1924	Reno, Nev.	Germ. gr.	269 Roble

[4]Adams, Margaret Grace	Los Altos	LD	Roble
Adams, Marvin Osborne	Los Altos	LD ‡ 56+4	Los Altos
Adams, Wilbur Forest	Sacramento	LD 41–17	209 Encina-*1066*
Aguerrevere, Angel D.	Caracas, Venezuela	Span. ‡ 34+33	4 Union
[1]Aho, Leonard	Astoria, Ore.	Educ. gr.	559 Cowper-p
A.B., Stanford, 1920, A.M., 1921			
[23]Aiken, Douglas Sedgwick	Los Altos	LD 19–7	224 Encina
[12]Ainsworth, Addis Thompson	Falls, Mont.	LD 28+15	44 Encina
[5]Akey, Ethel Freda	Fresno	LD 70·64+77	150 Roble-*1264*
Alabaster, Lewis Plimpton	Riverside	Econ. 185+165	BetaThetaPi-*1335*
A.B., Stanford, 1924			
Alekian, Alexander Edward	Fresno	Econ. 90·77–5	335 Union-*929*
Alexander, Alden Hay	Riverside	Med. gr.	2436 Clay, SF-sf
A.B., Stanford, 1923			
Alexander, Tom Charles	Kansas City, Mo.	Econ. 100+4	DeltaTauDelta-*1363*
Alexander, Walter Stevens	Los Angeles	M.E. 47·162+21	BetaThetaPi-*1335*
A.B., Stanford, 1924			
Alison, Etta Lucille	Campbell	LD 81–8	232 Roble-*1006*
Allen, Arden Joseph	Oakland	LD 80+36	547 Encina-*1*
Allen Edgar Melbourne	Oakland	Hist. 18·113+4	250 Branner-*1224*
Allen, Elizabeth Paine	Burlingame	LD ‡ 46+29	219 Roble
[4]Allen, Hollis P.	Pasadena	Educ. gr.	121 Toyon
A.B., Pomona, 1918			
Allen, Jack Garner	San Bernardino	LD 45+23	204 Encina-*1202*
Allen, Lloyd Jeffreys	Palo Alto	Econ. 132+37	909 Hamilton-p
[4]Allen, Marie Louise	San Jose	Cl. Lit. gr.	148 Roble
A.B., Kansas Wesleyan, 1917			
Allen, Marjorie Sarah	Los Angeles	LD 90+105	Chi Omega
Allison, Horace Burgess	Santa Ana	Econ. 123+32	ThetaDeltaChi-*1331*
Allmand, John Thieler, Jr.	Detroit, Mich.	Law gr.	239 Branner-*1195*
A.B., Stanford, 1924			
Ambler, Alfred Carleton	Palo Alto	Med. gr.	251 Emerson-p
A.B., Stanford, 1921, A.M., 1923			
Ambrose, Norman William	Santa Barbara	Econ.-Law 136+42	111 Bran'r-*1041*
Ames, Helen Jordan	Los Altos	LD 78+33	KappaAlphaTheta-*1336*
Anawalt, Howard	Tujinga	LD 32–15	107 Encina
[2]Andersen, Charles	Palo Alto	Law ‡	520 Lytton-p
[5]Anderson, Carl Arthur	San Carlos	Educ. gr.	San Carlos-sc
A.B., Nebraska, 1916; A.M., Columbia, 1917			
[234]Anderson, Carl William	San Mateo	LD 82–13	337 Ellsworth, SM-sm
Anderson, Edward W.	Long Beach	LD 38+4	44 Encina
Anderson, Evelyn M.	Minneapolis, Minn.	Med. gr.	222 Kingsley-p
A.B., Carleton, 1921, A.M., 1922			

[23]Anderson, Frank Marion Berkeley Geol. gr. 2604 Etna, Berkeley-b
A.B., Stanford, 1895
Anderson, Frederick Leroy Forestville Chem. 10·176+13 Sigma Nu-*1385*
A.B., Stanford, 1924
Anderson, George Irvin Oakland LD 72+22 526 Encina
[5]Anderson, Henry Stow Mayfield Econ. gr. 411 Yale, M-Box 83, m
A.B., Stanford, 1922, A.M., 1923
[12]Anderson, Ivan Bert Los Angeles LD 48·69–5 Theta Chi-*1383*
Anderson, James K. Hollywood Econ. 96·87+46 249 Branner
A.B., Stanford, 1924
Anderson, Joanna Maria Pasadena LD 124+72 Alpha Phi-*1387*
Anderson, L. Harold Minneapolis, Minn. C.E. gr. Delta Chi-*1304*
A.B., Stanford, 1924
[4]Anderson, Margaret Sacramento LD sp. 225 Roble
Anderson, Marjorie Belle Burbank Engl. 116·72+59 AlphaOm.Pi-*1367*
A.B., Stanford, 1924
Anderson, Ottilia C. Palo Alto Engl. gr. 847 Bryant
A.B., Stanford, 1923, A.M., 1924
Anderson, Ralph Eugene Kingsburg Econ. 139+64 122 Toyon
Anderson, Richard Kvelve Hollywood Pre-Med. 82·29+21 247 Branner
[1]Anderson, Themis Margaret S. Francisco Educ. gr. 101 Roble
A.B., California, 1923
*[2]Anderson, Werner Eugene San Mateo Econ. 88·96+2 337 Els'wth, SM-sm
A.B., Stanford, 1924
[1]Andreuccetti, Ameglio San Francisco Law gr. 1000 Oak, SF-sf
A.B., Nevada, 1920; J.D., Stanford, 1924
[1]Andrews, A. Violet Los Angeles Econ. 183+96 KappaKappaGam.
A.B., Stanford, 1924
[23]Andrews, Bertrand Albert Pasadena LD 62+12 Beta Theta Pi-*1335*
Andrews, Chester Richard Fresno LD 62+27 Sigma Nu-*1385*
Andrews, Lewis Willitt, Jr. Los Angeles LD 42–6 121 Encina
Angell, Richard Sloane Portland, Ore. LD 93+123 308 Branner
[5]Anglim, James Harold Represa Law gr. *327* Emerson-p
A.B., Stanford, 1923
[34]Ankele, Carl Louis San Francisco LD 9–6 141 Encina
[4]Annable June Ellen South Pasadena Educ. 16+9 203 Roble
[4]Annand, Percy N. San Mateo Ent. gr. 312 Griffith, SM-sm
B.S., Colorado Agricultural, 1920; A.M., Stanford, 1922
Anning, Herbert D. Altadena LD 72·40+4 1134 Emerson-p
Anschutz, Ralph Irving Oakland LD 85+81 Delta Chi-*1304*
Antonacci, Michael Henry San Jose C.E. 135·50+38 30 Sequoia
A.B., Stanford, 1924
[4]Antonell, Emil Brackett Ray, Ariz. LD ‡ 141 Toyon-*991*

[4]Applegate, Katherine M.	Portland, Ore.	LD ‡	951 Bryant-p
Apponyi, Carl Edward	Los Angeles	LD 50+38	428 Encina
[3]Argabrite, Marion Edith	Ventura	LD 13–2	337 Roble
Argall, Marsden Stratton A.B., Stanford, 1924	Milpitas	Engl. 48·145+34	557 Encina
[5]Argue, Richard Lawrence	Long Beach	Law 93·73+3	Sigma Nu-*1385*
[2]Arimori, Yoshikiyo	Okayama, Japan	Econ. 135·52–5	Jap'n'seClub-*598*
[5]Arkush, Albert Samuel United States Naval Academy, 1920	San Francisco	Pre-Med. gr.	329 Hawthorne-p
[1]Armanini, Albert Louis	Mountain View	LD 63+74	Mountain View-mv
[5]Armbruster, Earl	Los Angeles	Min. 79·69+10	215 Toyon
Armitstead, Reo B. A.B., Stanford, 1921, A.M., 1923	San Francisco	Med. gr.	2200 Post, SF-sf
Armour, Merrill	Long Beach	LD 93+56	Alpha Tau Omega-*1384*
Armstrong, Harold Stevens	Tulsa,Okla.	LD 40·54+46	304 Encina-*1034*
[4]Arnerich, Pauline Bernice	San Jose	LD ‡	270 Roble
[4]Arnerich, Vivian May	San Jose	LD ‡	270 Roble
Arnold, Harry Lundgren	Redwood City	LD 37–4	137 Stratford, RC-rc
[4]Arnold, Homer Leon A.M., Chicago, 1917	Arcata	Educ. gr.	407 Waverley-p
[4]Arnoldson, Astrid H.	Missoula, Mont.	LD	223 Roble
Arnstein, Eugene	San Francisco	LD 50+44	225 Encina
[3]Arthur, James Leland	Clovis	LD 66–12	501 Encina
[234]Aseltine, John	Palo Alto	Educ. 135·35+60	315 Alma-p
Ashby, Henry Arthur	Los Angeles	LD 55–23	Kappa Alpha-*1356*
Ashley, Hammond A.B., Stanford, 1924	Palo Alto	M.E. 206+191	AlphaKap.Lambda
Ashley, L. Hamlin	Alameda	LD 80+11	Theta Xi-*1355*
[3]Atherton, Donald Hope B.S., Rose Polytechnic Institute, 1905, E.E., 1916	Oakland	M.E. gr. 200	Glenw'dGl.,Oakl'nd-o
Atkinson, Ray Cook	Pine Bluff, Ark.	LD 59+25	451 Encina
Attwood, Cyril John	Palo Alto	LD 47+50	115 Cowper-p
Attwood, Philip Baxter	Palo Alto	LD 91·38+5	115 Cowper-p
Atwater, Clement Finley	Hollywood	Econ. 150+22	AlphaT.Omega-*1384*
Atwill, Edward Robert	San Gabriel	Geol. 136+120	Delta Upsilon-*1353*
Austin, Laura Virginia A.B., Stanford, 1923	Fresno	C.E. gr.	Manzanita
[2]Austin, Luethal A.B., Nevada, 1924	Los Angeles	Sch. Ed. gr.	Ramona Hotel-p
Avery, George True A.M., Harvard, 1917	Fort Collins, Colo.	Psych. gr.	845 Bryant-p
[23]Avery, William Elroy	Long Beach	LD 31+27	424 Encina
Avilla, Leonard Ray	Hughson	Law 135+47	21 Cabrillo

[1]Aydelott, Frank Lee	Hanford	LD sp. 39–11	Sigma Nu
[3]Aydelott, James Lee	Hanford	LD 56–8	Sigma Nu-*1385*
[5]Ayres, Elliott Howard	Palo Alto	Econ. sp. 10·137+82	826 Homer-p
[4]Ayres, Helen Margaret A.B., Mills, 1918	Los Gatos	Sch. Ed. gr.	826 Homer-p
[1]Babcock,Clyde Harold	Colo.Spgs.,Colo.	Law 49·53+2	248 Toyon
Babcock, Lawrence T.	Billings, Mont.	LD 44+27	208 Encina
[4]Bachmann, Frederick W. A.B., Stanford, 1922	Portland,Ore.	Fr. gr.	246 Toyon
Bacigalupi, Rimo A.B., Stanford, 1923	San Francisco	Bot. gr.	238 Branner
[23]de Back, Grace	San Francisco	Phil. 113·26+6	364 Roble
de Back, Norman John	San Francisco	Econ. 171–1	DeltaTauDelta-*1663*
[4]Backstein, Ricka B. A.B., Arizona, 1923	Sonora, Ariz.	Span. gr.	335 Roble
Baddley, Elmer R. A.B., Utah, 1922; A.M., Stanford, 1924	Salt Lake City Utah	Geol. gr.	329 Hawthorne-p
Badham, Byron Jack A.B., Stanford, 1924	Los Angeles	Law 182+157	222 Toyon-*1073*
Baer, Theodore F.	Salt Lake City, Utah	LD 44+41	123 Encina
[23]Bailard, Beverley A.B., Stanford, 1924	Carpinteria	Geol. 8·176+216	39 Encina-*1*
Bailard, Robert Edwards	Carpinteria	LD 46+6	231 Encina-*1*
Bailey, Marguerite Doris A.B., Stanford, 1923, A.M., 1924	Red Bluff	Ed.G.A.gr.	AlphaOmicronPi-*1367*
[5]Bailey, Thomas Andrew A.B., Stanford, 1924	San Jose	Hist. gr.	103 N. Bascome,SJ-sj
Bailey, Wilbur Porter	San Jose	LD 3·110+167	115 Toyon-*1212*
Bailie, Everett Graves A.B., Stanford, 1924	Los Angeles	Span. 180+210	249 Toyon-*1212*
[5]Bailie, Margaret Allen	Los Angeles	Engl. 60·101+3	Alpha Phi
[5]Bain, Li Hwei	Kiangsi, China	Educ. ‡ 35–14	Chinese Club-*11*
[1]Baird, Chester Alvan B.S., Ohio, 1916	Groveport, Ohio	Geol. gr.	627 Bryant-p
[4]Baker, Eunice K.	Watertown, N. Y.	LD ‡	376 Addison-p
Baker, George Cook	Palo Alto	LD 5·81–2	515 Lytton-p
[5]Baker, George Harold	Santa Ana	Econ. 6·156+28	219 Encina-*1353*
Baker, Gertrude	Baker, Ore.	LD 46+48	Kingscote-*702*
Baker, John J.	Oakland	Pre-Med. ‡ 27–21	333 Union
[1]Baker, Joseph Lucien	Alamosa, Colo.	LD sp. 66–5	1327 Byron-p
Baker, Mary	Baker, Ore.	Econ.-Jn. 139+129	Kingscote-*702*
[23]Baker, William Ray	Los Angeles	LD 28+0	233 Encina
[4]Balcom, Bayles R.	Los Angeles	LD ‡	238 Toyon

Balcomb, Violet May	Palo Alto	Hist. 134+216	335 Everett-p
[1]Baldry, Robert A.B., Missouri, 1924	Kansas City, Mo.	Econ. gr.	Kappa Alpha
[4]Baldwin, Mary Catherine	Riverside	LD	306 Roble
Baldwin, Paul Myron	Bakersfield	LD 35–11	362 Encina-*1290*
[4]Baldwin, Robert Irving	San Jose	LD ‡	706 Emory, SJ-sj
[4]Ball, Mary Adelaide A.B., Denver, 1912	Sacramento	Educ. gr.	911 Bryant
Ballou, Fremont Osbert A.B., Stanford, 1924	Los Angeles	Bot. 78-107+152	326 Union
[23]Balmat, Cecil Hastings A.B., Stanford, 1924	Spokane, Wn.	M.E. gr.	553 Encina-*554*
Baltimore, Louis A.B., Stanford, 1922	Los Angeles	Med. gr.	2215 Buchanan, SF-sf
Banta, Arthur Perry	Chinook, Mont.	LD 104+38	230 Branner-*1220*
[12]Baptie, Albert Sheldon	Bakersfield	Geol. 69+10	203 Union-*803*
Baptie, Charles Christopher	Bakersfield	M.E. 157+48	Sigma Nu-*1385*
Barbee, Bill	Long Beach	LD 47+32	Alpha Sigma Phi-*1357*
[12]Barby, Otto Carl A.B., Stanford, 1924	Knowles, Okla.	Law 190+171	40 Encina-*1222*
[12]Barby, Ralph Earl A.B., Stanford, 1924	Knowles, Okla.	Econ. 180+64	558 Encina-*1222*
Barley, Charles Victor A.B., Stanford, 1924	Long Beach	S.Biol.Med.48-151+149	503Enc-*914*
[4]Barnard, Mabel	Palo Alto	LD 6+1	475 Hamilton-p
Barnes, Glen Charles	Los Angeles	LD 101–11	Kappa Sigma-*1326*
Barnes, Thomas Reed	Fellows	Min. 90-45+25	365 Lincoln-p
[13]Barnett, Ellsworth Lansing	Santa Rosa	LD 69+38	Alpha Kappa Lambda
Barnett, Eric Gordon	Lower Lake	M.E. 178+72	601 Melville-p
Barnett, Homer G.	Bisbee, Ariz.	LD 45+19	140 Encina
[4]Barney, Earle Sevier A.B., Stanford, 1916	Union City, Tenn.	Sch. Ed. gr.	213 Toyon
[23]Barricklow, Louise Josephine A.B., Stanford, 1924	Turlock	Engl. 189+126	Gam.PhiBeta-*1337*
Barry, Raymond Walker A.B., Ohio Wesleyan, 1915; A.M., Stanford, 1916	Palo Alto	Engl. gr.	429 Forest-p
Bartlett, Emily M. A.B., Maine, 1912, A.M., 1917	Orono, Maine	Bot. gr.	555 Lytton-p
Bassler, Hiram	Chico	C.E. 90-46+26	CommunityHse.-p
Bateman, Mary A.B., Stanford, 1924	Salt Lake City, U.	Econ. 135-50+45	180 Roble
[4]Bates, Ellen Elizabeth	Palo Alto	LD sp.	331 Lincoln-p
[3]Baughman, Roland Orville	San Jose	Engl. 0–13	594 S. 11th, SJ-sj

Baxter, Cleland Folinsbee	Upland	LD 36–14	405 Encina-*603*
[5]Baxter, Philip Norman	Stockton	LD 115+145	159 Churchill-p
Bayer, Léona Mayer A.B., Stanford, 1923	San Mateo	Med. gr.	215 Griffith, SM-sm
[5]Bayley, Arnold Blakeman	Los Angeles	Econ. 179+27	Alpha Sig. Phi-*1357*
Baylis, Edythe Goodwin	Los Angeles	Engl. 7·172+69	Chi Omega
[4]Beach, Gladys Martha B.S., Idaho, 1922	Burley, Ida.	Sch. Ed. gr.	Roble
[1]Beach, Rachel Julia	Palo Alto	Hist. 15·115+44	540 University-p
[12]Beach, Susan E. A.B., Stanford, 1924	Palo Alto	Econ. 90·90+97	540 University-p
Beach, W. Edwards A.B., Stanford, 1922	Palo Alto	Econ. gr.	540 University-p
Beardslee, Robert Lewis	Stockton	LD 46+57	215 Encina
Beardsley, Charles Edward	Los Angeles	Law 156+118	214 Toyon-*1096*
Beattie, Augustus C. A.B., Stanford, 1922	Portland, Ore.	Med. gr.	2286 Jackson, SF-sf
[3]Beatty, Malva Grace	San Jose	Pre-Med. ‡	Hotel Vendome, SJ
[5]Beaver, Peter Pierce	San Francisco	LD 80+0	Phi Kappa Sigma-*1306*
[23]Beck, Aileen Marie	Petaluma	LD 29+15	149 Roble
[12]Beck, Charles B.	Dubois, Wyo.	LD 18·62+101	567 Lincoln-p
Becker, Arthur Wm. A.B., Stanford, 1924	Springerville,Ariz.	M.E.197+49	AlphaKap.Lamb.-*658*
Becker, John Greenough	Long Beach	LD 52·94+47	281 Embarcadero-*1*
Beckwith, Burnham Putnam	Pasadena	LD 93+51	103 Branner
Beckwith, Sterling	Pasadena	LD 48+30	236 Encina
Beede, Arthur Huntington B.S., Occidental, 1920	Whittier	Med. gr.	2404 Clay, SF-sf
Beedy, Mary Elizabeth	San Francisco	LD 37+2	261 Roble
[5]Beeman, J. Horton B.S., Oregon, 1922	Portland, Ore.	Law gr.	SigmaAlphaEpsilon-*1305*
Beer, Kenneth Verrender	Salt L. City,U.	LD 47·42+9	434 Encina-*907*
Beers, Frank Troxell, Jr.	Dupont, Wn.	LD 45+0	112 Encina
Beeson,HaroldGerard	Anchorage,Alaska	Chem. 90·85+44	Kingscote-*1356*
[124]Behlow, Charles John	San Francisco	LD 28–6	224 Encina
Belanger, Joseph	Shelburne Falls,Mass.	LD 75–27	531 Encina
Belcher, Stanley Smith	Marysville	Law 118+11	Kappa Sigma-*1326*
[12]Belenky, Lucas	Russia	LD sp. 47–20	1431 Waverley-p
Bell, F. Fancher	Pecos, Tex.	Econ. 133+21	141 Toyon-*1*
Bell, Luther Shepard	Pecos, Tex.	Econ. 137+138	113 Toyon-*1*
[12]Bell, Muriel Frances	Palo Alto	Fr. 18·109+12	532 Homer-p
[234]Beltz, S. Stewart	Palo Alto	Econ. 45·117+18	Zeta Psi-*B*

[1]Benedict, Charles Keep	Palo Alto	LD 54–22	1230 Emerson-p
[5]Benedict, Howard Courtney, Jr.	Palo Alto	Educ. gr.	1230 Emerson-p
A.B., Stanford, 1923, A.M., 1924			
Benepe, Wesley Uhl	Sebastopol	LD 84+16	138 Branner
Bennett, Harry Mortimer, Jr.	Glendale	LD 43+8	448 Encina
[4]Bennett, Manford Wendle	San Jose	LD 29–5	505 Asbury, SJ-sj
[23]Bennett, Margaret Elaine	Palo Alto	Hist. gr.	641 Gilman-p
A.B., Stanford, 1918, A.M., 1919			
Bennett, Merrill Kelley	Palo Alto	Econ. gr.	270 Kellogg-p
A.M., Brown, 1921			
[12]Benninger, Charles, Jr.	San Francisco	Pre-Med.155+29	D.TauDelta-*1071*
[4]Benson, Albert Niles	Decoto	Educ. 16+18	Menlo Park-mp
[5]Benson, Allen Gemmil	Huntingdon, Pa.	C.E. 72·102+2	332 Channing-p
Benson, Cecil Raney	Santa Clara	LD 137+108	1515 Franklin,SC-sc
[12]Benson, Gilbert Thereon	Oswego, Ore.	Bot. gr.	Kingscote-*275*
A.B., Stanford, 1923			
[4]Benson, Ivan	Lawrence, Kan.	Phil. gr.	Cooksey Lane
A.B., Stanford, 1920			
[5]Bentley, C. Eugenia	Los Altos	Hist. 144+72	Delta Gamma
[1]Berendsen, Anita M.	San Francisco	Econ. 124+85	Alpha Phi
Berger, Philip Raymond	Oakland	LD 76+103	307 Branner
Bering, Barry F.	San Francisco	LD 95+89	309 Encina
Bering, Donald Arthur	San Francisco	LD 49+40	309 Encina
Berk, Henry H.	Alstown, Wn.	M.E. 192+70	123 Toyon-*948*
[5]Berkalew, George W.	Binghamton,N.Y.	Phil. 85·47+42	Kingscote-*1078*
[5]Berman, Morris	San Francisco	Chem. 174+156	451 Encina
Bernstein, Morris	Los Altos	LD 7·38+24	Los Altos-la
[4]Berrien, William Joseph	Pasadena	LD sp.	421 Cowper-p
[4]Berry, Franc	Robinson, Ill.	Engl. gr.	256 Roble
A.B., Denver, 1923			
[1]Berry, Lowell Webster	Asotin, Wn.	Econ. 121–1	5 Lasuen
[4]Berry, Nancy June	Palo Alto	Sch. Ed. gr.	373 Channing-p
A.B., California, 1922			
[5]Berry, Othmar Berarde	Selma	Econ. 15·158+18	514 University-p
[234]Berry, Willard Elwin	Glenwood, Mo.	LD 78+25	635 Bryant-p
[4]Best, Neil O.	Daly City	Educ. gr.	757 Homer-p
A.B., Stanford, 1915			
[13]Best, Rouie Alice	Riverside	Hist.90·91+37	SigmaKappa-*1327*
A.B., Stanford, 1924			
[23]Best, William E. A.	San Mateo	LD 29+4	128 Clark SM-sm
[23]Bettinger, Lee Crawford	Berkeley	LD 66–11	436 Encina
Bever, Clarence Lloyd	Filer, Ida.	LD 46–3	359 Encina

[4]Beveridge, Ada Russell A.B., Mills, 1921	Fresno	Engl. gr.	320 Roble
Bianchi, Marie Lucy A.B., Stanford, 1923, A.M., 1924	Mountain View	Span.gr.	852Washington,MV-mv
Bickerton, Haughton C.	Menlo Park	LD 34–3	ParkLane,MenloPk.-mp
Biddison, James Philip	Goodland, Kan.	Law 135+58	532 Encina-*586*
Biddle, Eunice Katherine A.B., Stanford, 1924	Pomona	Engl. 181+104	Delta Gamma
Bidwell, Lillian Follis	Glendora	Engl. 139+171	304 Roble
Bielefeldt, Talbot	Placentia	Pol. S. 118+123	530 Encina
Bigelow, Herbert S.	O'Neals	Econ. 139+195	MountainView-mv
Bigelow, Schuyler, Jr.	Santa Ana	Econ. 90·45–8	1102 Ramona-p
[12]Biggar, Virginia Keith	Los Angeles	Econ. 47·117+14	K.KappaG.-*1354*
[4]Bigler, Anna Loretta A.B., Minnesota, 1904	Palo Alto	Sch. Ed. gr.	534 Channing-p
[4]Billig, Florence Grace B.S.,Chicago, 1915; A.M., Columbia, 1919	Sacramento	Bot. gr.	106 Roble
[4]Bingham, Frank T., Jr.	Tucson, Ariz.	LD sp. 14+5	138 Toyon
Binkley, Charles Herbert	Cobb	LD 55+68	415 Encina-*1245*
[4]Binkley, M. Elizabeth	Cobb	Educ. 44·11+8	358 Roble
[13]Binkley, Robert Cedric A.B., Stanford, 1922, A.M., 1924	Cobb	Hist. gr.	89 Sequoia
Binkley, Thaddeus C.	Cobb	LD 98+71	84 Sequoia-*1245*
[1]Bireley, Frank Wolsey	Hollywood	LD 95+25	Delta Upsilon
[1]Birnie, David	Arnhem, Holland	English 67·56+25	San Juan
Bissell, Howard Seymour A.B., Stanford, 1924	Cleveland, O.	Econ. 91·93+81	203 Toyon-*1187*
[5]Bissinger, Paul	San Francisco	LD 84+58	218 Branner-*1030*
Bivans,Kenneth Rockwell	LaGrange,Ill.	LD ‡ 45+2	206 Encina
Bjorlie,Clarence Freeman	Franklin,Minn.	M.E. ‡ 45+0	834 Kipling-p
Black, Winston Churchill	Salt L. City, U.	LD ‡ 35–11	433 Encina
Blacker, Carroll Lynne	Bakersfield	C.E. 39·149+59	847 Bryant-p
Blackford,JamesMcNeal III	Libby,Mont.	LD 45+24	151 Churchill-p
Blackford, John Lindesay	Libby,Mont.	LD 45+63	151 Churchill-p
Blackman, Chester Wiggin	Los Angeles	LD 48+60	22 Encina-*625*
Blair, James Stuart A.B., Kansas, 1919, A.M., 1920; Ph.D., Stanford, 1924	Mayfield	Chem. gr.	930 Palo Alto, M-m
Blazier, Harold Emery	Portland, Ore.	LD 45+31	111 Encina-*901*
[1]Bledsoe, Barbara Shepler	Los Angeles	LD 84–12	Delta Gamma
Bledsoe, Leighton M.	Bisbee, Ariz.	LD 19·94+83	Sig.AlphaEps.-*1305*
[5]Bley, Bertrand Adolph A.B., Stanford, 1924	San Francisco	Law-gr.	228 Union-*1060*

Blosser, Fred Claire	Fresno	Law 44·111+13	Theta Chi-*1383*
[12]Blumberg, Oscar Charles	Sacramento	C.E. 90·14+11	447 Encina
Boardman, Albert Drown	San Francisco	LD 42–7	406 Encina
[4]Bobst, Fred Elton	San Mateo	LD	19 Alvarado
Boeseke, Felecita Elisa	Santa Barbara	LD 90+47	DeltaDeltaDelta-*1325*
Boezinger, Olivia	Menlo Heights	Fr. 4·176+203	Gam.PhiBeta-*1311*
A.B., Stanford, 1924			
Bogue, George Richardson	Burlingame	LD 48+21	138 Encina-*I*
[1]Bohman, Ernest	Troy, Ida.	LD 39–13	Theta Delta Chi
[4]Boland, Honor Jane	Los Angeles	Fr. gr.	307 Roble
A.B., California, 1922			
Boles, Harold Everett	Los Angeles	LD 86+45	Delta Upsilon-*1313*
Bolin, C. Earl	Palo Alto	LD 60·50+48	859 Lincoln-p
Bollinger, Eldred Floyd	Cupertino	Chem. 146+67	Cupertino-c
Bolman, Marion De Wolfe	TwinFalls, Ida.	LD 24·78+64	Gam. Phi Beta-*1337*
Bolman, Robert Hill	TwinFalls, Ida.	LD 40–6	208 Encina
Bolton, Robert Elmer	Casper, Wyo.	LD 49+18	346 Encina
Bonar, Perry Arthur	Santa Rosa	Pre-Clin.163+152	551 Lytton-*1356*
Bonnot, Hester Davis	Mayfield	Bot. gr.	University Park
A.B., Stanford, 1921, A.M., 1922			
[4]Bontz, Mildred K.	Palo Alto	Span. gr.	235 Middlefield-p
A.B., Stanford, 1918			
Booker, Eugene Ryan	Pembina, N. D.	Math. 54·128+63	Sigma Chi
A.B., Stanford, 1924			
[1]Booksin, Jeannette Louise	Campbell	Phil. 181+23	Gamma Phi Beta
A.B., Stanford, 1924			
[5]Boone, Andrew Richmond	San Diego	Law ‡ 160+36	231 Union-*10*
[5]Boone, Thomas Harold	Palo Alto	LD 113+48	Chi Psi-*588*
Booth, Robison Eyre	Butte, Mont.	M.E. 200+141	Kingscote-*1285*
A.B., Stanford, 1924			
Borchers, Walter Claus	San Jose	Econ. 132+34	55 E. Empire, SJ-sj
Borden, Fred Wallace	San Jose	Chem. 111·46+65	145 S. 9th, SJ-sj
Boren, Raitt Stanford	Oakland	LD 91+12	131 Toyon-*887*
*[3]Borthwick, Harry Alfred	Davis	Bot. gr.	Davis-d
A.B., Stanford, 1921, A.M., 1924			
Borton, Mary Elizabeth	Bakersfield	Hist.-Jn. 90·49+89	360 Roble-*84*
[5]Borwick, David H.	Denver, Colo.	Law 93·39–3	140 Branner
Botsford, Carol Harriette	Los Angeles	Hist. gr.	Delta Gamma-*1366*
A.B., Stanford, 1924			
[23]Botsford, P. Paul	Edina, Mo.	Chem. 94·30+8	1121 Bryant-p
Botts, Ernest L.	Santa Rosa	Med. gr.	220 Golden Gate, SF-sf
A.B., Stanford, 1922			
[4]Boulware, Alice	Palo Alto	Ed. G.A. 78–14	170 Bryant-p

[4]Bourne, Eulalia C.	Tucson, Ariz.	LD sp.	421 Kipling-p
Bourquin, Fred Raymond	Santa Barbara	LD 37–6	50 Encina
[1]Bousfield, JohnDunwoody	Aberdeen, Wn.	LD 9–24	Chi Psi
[12]Bowen, ChesterStanfield	Vancouver, B.C.	Econ. 20·160+78	304 Union
A.B., Stanford, 1924			
[23]Bowen, Dorothy	Los Angeles	LD 16+13	340 Roble
Bower, Beulah Dorothy	Menlo Park	LD 41+12	Menlo Park-mp
[1]Bower, Gordon Rawlings	London, Eng.	Engl. sp. 116+31	237 Emerson-p
[1]Bower, Joseph Edward	Helena, Mont.	LD 15–6	117 Encina
Bower, Kendall Myers	Menlo Park	M.E. 180+47	Harvard Rd, MP-mp
A.B., Stanford, 1924			
[3]Bowers, Nathan Abbott	Burlingame	C.E. gr.	809 Fairfield, B-b
B.S., Rose Polytechnic Institute, 1910, C.E., 1921			
Bowman, Arthur Wellington	Berkeley	LD 36–9	123 Encina
[1]Boyajian, Peter Aram	Fowler	LD	56 Encina
[4]Boyce, Josephine Lenore	Monterey	LD	602 Ocean, M-m
[234]Boyd, Hugh Thomas	Spreckels	Engl. gr.	930 Waverley
A.B., Stanford, 1919			
Boyd, Walter Harrington	Long Beach	Med. gr.	1104 High-p
A.B., Southern California, 1920			
[4]Boynton, Katherine	San Francisco	LD ‡	Roble
[234]Boynton, Robert Davis	San Francisco	C.E. 113+94	PhiGam.Delta-*1324*
[1]Bozarth, Elton Poole	Hebron, Neb.	LD 82–19	Theta Xi
[23]Bradford, Elizabeth Salisbury	Palo Alto	Ed. G.A. 15·27+30	350 Addison-p
[4]Bradford, Lilah	Portland, Ore.	Sch. Ed. gr.	361 Roble
A.B., Oregon, 1911			
Bradley, John Allen	Santa Ana	LD 88+5	Alpha Sigma Phi-*1357*
[2]Bradshaw, Roch William	Orange	Educ. gr.	319 Encina-*1254*
A.B., Stanford, 1923			
[5]Bradshaw, William L.	Sacramento	Law gr.	El Monte-*1024*
A.B., Stanford, 1924			
Brady, Earl Clyde	Helena, Mont.	LD 45·39+52	21 Encina
Bragg, Arthur Dickinson	Carmel	LD 146+97	Sigma Nu-*1385*
Brailsford, Beatrice L.	Hagerman, Ida.	Hist. 126+17	108 Roble-*1216*
[5]Bramblett, Ernest King	Fresno	LD 56·87+76	Laurel Ct., MP-mp
[12]Bramblett, James Newton	Fresno	Hist. ‡ 13–9	Laurel Ct., MP-mp
Bramhall, Ervin Hicks	Palo Alto	LD 93+14	131 Kellogg-p
Bramkamp, Paul Jay	San Jose	M.E. gr.	318 Union
A.B., Stanford, 1923			
[1]Brammer, George A.	Stockton	Psych. gr.	635 Webster-p
A.B., Stanford, 1923, A.M., 1924			
[5]Brandon, Edward L.	Palo Alto	LD 59+30	1122 Channing-p
[4]Brandt, Claudine Marie	Alameda	LD ‡	354 Roble

[4]Brandt, Louis James	Bakersfield	LD ‡	118 Toyon
[4]Brannock, William A., Jr.	KansasCity, Mo.	Econ. ‡	110 Toyon
[12]Branson, Ernest Patton A.B., Wooster, 1907; A.M., Stanford, 1924	Long Beach	Educ. gr.	400 Webster-p
Bransten, William Haas	San Francisco	LD 93+109	237 Branner
Brant, Helen Rankin A.B., Stanford, 1924	San Francisco	Engl. 183+42	Gam.Phi Beta-*1337*
[3]Braunscheiger, Elyse E.	Palo Alto	LD 8–6	543 Middlefield-p
Brazil, Abraham H. A.B., Stanford, 1922, J.D., 1924	Stanford Univ.	Law gr.	64 Sequoia-*1113*
[3]Brazil, Anthony A.B., Stanford, 1924	San Luis Obispo	Law gr.	50 Sequoia-*1113*
[1]Brazil, Valdo Haggberg	Castroville	Law 50·104+3	San Jose
Breeze, Thomas H., Jr.	San Mateo	LD 19–3	119 Encina
Brenholts, Dorothy A.B., Stanford, 1924	San Diego	Phil. 110·72+50	166 Roble-*614*
Brennan, Mary Madeleine A.B., Stanford, 1924	Los Angeles	C.L.-Engl.90·98+130	365 Roble-*955*
Bresee, Fred, Jr. A.B., Johns Hopkins, 1920	Palo Alto	Med. gr.	751 Everett-p
Bridgman, Lloyd Alton	Witten, S. D.	LD sp. 45+61	884 Boyce
[5]Briesen, Hans V.	San Francisco	Chem.-Med.15·163+44	A.D1.Phi.-*J*
[23]Briggs, Ackerman	Los Angeles	LD 27+2	408 Encina
§[12]Briggs, Alexander Woodland	Palo Alto	Bot. 170+225	249 Lowell-p
Briggs, Charles Willers	Los Angeles	LD 94+51	Sigma Nu
[5]Briggs, Elizabeth Jane A.B., Willamette, 1919	Portland, Ore.	Sch. Ed. gr.	541 Churchill-p
[4]Brinker, Ruth A.B., Denver, 1922	Denver, Colo.	Chem. gr.	254 Roble
[1]Brinkman, Newton A.B., Stanford, 1924	Sacramento	Econ. 180+57	53 Sequoia
Britten, Clyde Harold	Exeter	LD 44+41	249 Encina
[4]Britton, Lewis Henry A.B., Stanford, 1905	Morgan Hill	Educ. gr.	Lawrence-l
[1]Brock, Harris Haiden	San Jose	LD 14–18	642 S. 2nd, SJ-sj
Brockway, Maywood L.	Billings, Mont.	LD 85+19	1085 University-p
Broenkow, Herman Walter	Tacoma, Wn.	Law 132+95	PhiGam.Delta-*1324*
[4]Brolyer, Cecil Robert A.B., Stanford, 1923	Dunning, Neb.	Psych. gr.	322 Union
Brooker, Edgar	Jonesville, Alaska	LD 66+48	344 Middlefield-p
[5]Brooks, Donald C.	South Paris, Me.	Law 116·54+40	543 Encina

§ Deceased February 20, 1924

[1]Brooks, Joseph Franklin, Jr. Richmond Pol. S. ‡ 26–14 Stanford-*1305*
Brooks, Karl Pocatello, Ida. Law gr. Phi Delta Theta-*1334*
B.S., Dartmouth, 1923
[12]Brooks, Phillip Terrill San Jose LD 112+37 49 Sequoia
Brooks, Phillips Gardner Los Angeles LD 46+3 235 Encina
[4]Brotherton, Mabel Grand Rapids, Mich. Math. 77·15+8 Roble
Broughall, Helen K. Los Angeles Hist. 4·137+195 Alpha Phi-*1387*
Brouse, Albert Anderson Piedmont LD 36–25 Kingscote-*1279*
[3]Brown, Aileen Maude Sacramento LD 14+11 257 Roble
[13]Brown, Charlotte Hall Riverside LD 66+43 KappaKappaGam.*1354*
Brown, David Ewald, Jr. Oakland Chem. 133+90 90 Sequoia-*1321*
Brown, Esther Eggers Riverside Engl. 90·92+75 256 Roble
A.B., Stanford, 1924
[1]Brown, Everett Eureka Econ. 180+33 Kappa Alpha
A.B., Stanford, 1924
[23]Brown, Fay American Falls, Ida. LD 63+48 407 Waverley-p
[4]Brown, Florence Greenlaw Eureka Educ. ‡ 304 Roble
Brown, George D. San Francisco Med. gr. 1920 Post, SF-sf
A.B., Stanford, 1921
Brown, Hugh Harrison Tonopah, Nev. LD 48+17 325 Encina
Brown, Kenneth Clinton Sacramento LD 20+5 23 Encina
Brown,Kenneth William San Francisco Chem. gr. AlphaTauOmega-*1384*
A.B., Stanford, 1924
Brown, Leland Hermon Gilroy E.E. gr. 301 Addison-p
A.B., Stanford, 1922, Engineer, 1924
Brown, Leon Bernard Los Angeles LD 90+141 112 Toyon-*1*
Brown, Muriel Whitbeck Rochester,N.Y. Psych. gr. 115 Everett-p
A.B., Wellesley, 1915; A.M., Stanford, 1924
Brown, Norton Sager Stanford Univ. Pre-Med.135+52 PhiDel.Theta-*31*
[1]Brown, Philip Meader Providence, R.I. Econ. gr. 220 Union
A.B., Brown, 1922
Brown, William B. Los Angeles Pol. S. 101·48+60 232 Branner
[23]Brown, William Carlton San Diego C.E. gr. 235 Leland, M-*87*
A.B., Stanford, 1923
Browne, Gerald Albert Bakersfield Law90·49+56 Rwd.Cty.-Bx238,rc
[5]Browne, Lafe Todd Santa Paula LD 113+8 Sig.AlphaEpsilon-*1305*
[14]Brownell,EvelynBuckingham Stan.Univ. LD 27·49+35 Kingscote
[1]Brownfield, Edith Dorothy Stan. Univ. Engl. 85·17+9 Kingscote
[4]Brownstone, Louis, Jr. San Francisco LD Toyon
Bruce, Raymond Robert Glendale, Ariz. LD 46+62 20 Cabrillo
Bruml, Leonard Foote Palo Alto LD 105+181 159 Waverley-p
Brunet, H. Joseph Stanford Univ. Fr. gr. Cedro Cottage-*1185*
A.B., Stanford, 1923, A.M., 1924

[23]Brunner, William Harold	San Jose	LD 29+21	172 Fremont, SJ-sj
[4]Brunton, Lucile	Fresno	Ed. G.A. ‡	347 Roble
[12]Brust, Paul Raymond A.B., Stanford, 1921	San Diego	Med. gr.	2718 California, SF-sf
Bryan, Paul Charles A.B., Stanford, 1924	San Jose	Econ. 181+165	28 Magnolia, SJ-sj
[5]Bryant, Edwin Francis	Marysville	LD 87+21	115 Toyon-*5*
Bryant, Howard Selva	San Jose	LD 21·97+137	41 So. 11th, SJ-sj
Bryner, Claude Albert	Price, Utah	LD 125+18	635 Bryant-p
Buchanan, A. Russell	Palo Alto	LD 46+47	Box 431, p
[12]Buchanan, Dorothy King	Palo Alto	Hist. 30·105+79	Box 431, p
Buck, Frederick	Pasadena	LD 3·76+0	137 Branner
[12]Bucklin, Louis Lapham	Palo Alto	Law 147–9	936 Waverley-p
Buckwalter, John Cassel A.B., Stanford, 1924	Palo Alto	M.E. 186+194	256 Toyon
[1]Bugbee, James McKean A.B., Stanford, 1924	Palo Alto	Geol. 70·122+48	347 Alma-p
Bugge, Elwyn B.	San Francisco	Econ. 74·89+2	32 Sequoia
Bullis, William Adlai	Los Angeles	Law 4·136+100	Beta Theta Pi-*33*
Bullock, James Rae	Pasadena	Law 135+120	213 Union-*15*
Bulman, Robert A.B., Stanford, 1922	San Francisco	Med. gr.	2018 Webster, SF-sf
Bumbaugh, Harold L. A.B., Stanford, 1924	Los Angeles	M.E. gr.	Phi Kappa Psi
[4]Bunday, Maude Belle A.B., Pacific, 1912, A.M., 1913	Forest Grove, Ore.	Sch. Ed. gr.	Madroño
[4]Bunds, Clifford Courtney A.B., Stanford, 1920, Engineer, 1921	Santa Clara	Chem. gr.	1390 SantaClara,SC-sc
[23]Bundy, Caryl Leonard	Modesto	Min. 110–29	141 Toyon-*1*
[12]Bunn, Tom McConnell	Los Angeles	LD 19–21	121 Encina
[3]Bunnell, Virginia	Los Angeles	LD 15+14	303 Roble
[5]Bunting, Helen Masters	Stanford Univ.	S. Biol.	San Juan
[12]Burch, George W., Jr. A.B., Stanford, 1922, J.D., 1924	Owensmouth	Law gr.	*229* Union
Burch, Mary Crowell B.L., California, 1907, M.L., 1908	San Jose	Educ. gr.	15 So. 13th, SJ-sj
Burchell, Stanley LeBaron	Salinas	LD 41+0	334 Encina
Burck, Gail Johnson	Los Angeles	LD 42+12	200 Encina-*622*
[1]Burdick, Wm. Elliott	Minneapolis,Minn.	Min. 145+98	859 Lytton-p
Burgess, Charles Preston	Palo Alto	LD 34–31	250 Encina
[4]Burgess, James M. A.B., Oregon, 1919	Astoria, Ore.	Educ. gr.	233 Union
Burgess, Keith	Pomona	LD 111+21	529 Alma-p

Burgess, William Arnold — Los Angeles — LD 40–18 — Phi Kappa Sigma
[4]Burke, Harry A. — Gothenburg, Neb. — Educ. gr. — 334 Homer-p
A.B., Idaho, 1917
[1]Burke, S. Walter — San Francisco — Min. 135·59+18 — 539 Encina
Burkhard, William George — San Francisco — Med. gr. — 113a Fair Oaks, SF-sf
A.B., Stanford, 1923
[1]Burkhart, Wesley H. — Burlingame — LD ‡ 5–16 — 6 Alvarado
Burks, Aileene Sabina — Venice — LD 68·42–4 — 170 Roble
[124]Burks, Barbara Stoddard — Berkeley — Psych. 135·31+49 — 215 Roble
[1]Burks, Bessie Harlow — Bremerton, Wn. — Sch. Ed. gr. — Madroño
A.B., Stanford, 1921
[5]Burks, Dana, Jr. — Venice — Chem. gr. — 523 Cowper-*1384*
A.B., Stanford, 1924
Burks, Virginia — Venice — Sch. Ed. gr. — Kappa Kappa Gam.
A.B., Stanford, 1923
Burlingame,Lucile Anna — Stanford Univ. — LD 61+36 — 24 Alvarado-*834*
Burlingame, M. Edith — Stanford Univ. — Psych. 134+178 — 24 Alvarado-834
Burnett, Clarence Irvin — Yakima, Wn. — Med. gr. — 929 Haight, SF-sf
A.B., Stanford, 1923
[12]Burnett, Robert Neel — El Paso, Tex. — C.E. gr. — 707 Bryant-*1036*
A.B., Stanford, 1923
[34]Burney, Dudley Haskell — Denver, Colo. — Hist. ‡ 15+13 — 421 Encina
[4]Burns, Angelina Bradley — Palo Alto — Hist. gr. — 1100 Hamilton-p
A.B., Idaho, 1919
Burns, Douglas Erickson — Ojai — LD 46+9 — 31 Encina
[3]Burns, Odis Herschel — Tulsa, Okla. — Law gr. — 535 Cowper-p
A.B., Kansas, 1916
Burr, Susan Sophia — Pawling, N.Y. — Econ. gr. — University Park-*886*
A.B., Vassar, 1920; A.M., Stanford, 1922
Burrell, Kenneth Hare — Oakland — LD 96+56 — Alpha Kappa Lambda
Burress, Harold Drown — Los Angeles — LD 9–30 — 124 Encina
[4]Burt, Anna Howell — Sacramento — Engl. gr. — 214 Roble
A.B., Butler, 1908; A.B., Chicago, 1908
[23]Busby, Beryl — Santa Barbara — LD 46·31+31 — 356 Roble
Busch, Burt W. — Ukiah — LD 44+1 — 451 Encina
[5]Bush, Frederic Andrew — Palo Alto — Geol. 125+1 — 859 Lytton-p
[5]Bush, Valdi Rounds — Oakland — Med. gr. — 379 Roble
A.B., Stanford, 1924
Bushnell, George Harley — San Francisco — LD 44–12 — *227* Encina
Buss, Fred Earle — Provo, Utah — Geol. gr. — 1112 Palo Alto ave.-p
A.B., Brigham Young, 1913; A.M., Stanford, 1924
[4]Butler, Blanche M. — Minneapolis, Minn. — Educ. gr. — Roble
B.S., Chicago, 1909

Butler, Edward William Stanford Univ. M.E. gr. 39 Sequoia-*1018*
A.B., Stanford, 1924
[5]Butler, Humphrey Bayford London, Eng. LD 44–1 480 Seale-*546*
Butler, Laura Louise Berkeley Hist. 90·91+48 D.DeltaDelta-*1235*
A.B., Stanford, 1924
[4]Butler, Raymond I. San Francisco Educ.gr. 27 Buena Vista Ter., SF-sf
A.B., Gonzaga, 1915, A.M., 1916
Butler, Worth Hervey Los Angeles LD 51+71 203 Encina
[5]Butt, Edward Merchant Seattle, Wn. Phyl-Med. 127·47+32 814 Cal., SF-sf
Butterfield, Albert Edward Chino Med. gr. 2215 Buchanan, SF-sf
A.B., Southern California, 1922
Button, A. Ronald Long Beach Law 95·49+24 616 Forest-p
Buttram, Clarence A. Oklahoma City, Okla. Geol. gr. Sigma Chi-*628*
B.S., Oklahoma, 1923
Buttrey, Adelbert John Craigmont, Ida. Hist. 143 54 659 Middlefield-*11*
Buttrey, Elmer Mervin Craigmont, Ida. LD 40–4 29 Salvatierra-*11*
Buzard, Reynolds Lawrence Berkeley LD 57+45 Alexandria Hotel-p
Bye, Sigurd Edward Portland, Ore. Econ. 139+48 130 Branner-*1094*
Byerly, Lloyd Alphonsus Portland, Ore. LD 39–18 45 Encina
Byler, Gertrude Thiriot Berkeley LD 50·44+56 204 Roble
[12]Byrkit, James Ward, Jr., Greencastle, Ind. Min. gr. 215 Churchill-p
B.S., Nevada, 1923
[4]Byrkit, Margaret Chatsworth Sch. Ed. gr. 215 Roble
A.B., Southern California, 1924
Byrne, Carlton Earley Santa Cruz LD 47+51 328 Encina-*684*
[3]Byrne, John Drennan Santa Cruz LD 14+3 446 Encina
[4]Cady, Osman Horace Corvallis, Ore. Chem. gr. 249 Toyon
B.S., Washington, 1915, M.S., 1919
[5]Cahen, Robert Paul San Francisco Law gr. 317 Union
A.B., Stanford, 1923
Cahoon, Jean Clark Berea, Ky. Educ. gr. Kingscote-*632*
A.B., Smith, 1911; A.M., Stanford, 1924
Cain, Brighton C. Salt Lake City, U. Ent. gr. 40 Encina-*996*
A.B., Stanford, 1923, A.M., 1924
[5]Cain, Homer Green Santa Ana Math. gr. 1102 Ramona-p
A.B., Stanford, 1924
[3]Cairns, Earl W. Pasadena Econ. 91–4 Alpha Delta Phi-*J*
[1]Caldon, Henry Gilbert Monrovia LD ‡ 8–9 301 Encina
Caldwell, George W. South Pasadena Pre-Med. 114·28–7 Sigma Chi
[3]Callander, Ellen Fargo, N. D. LD 99+132 Kap.Kap.Gam.-*1354*
Cameron, Clifford S. Aberdeen, Wn. LD 94+35 301 Branner
[3]Cameron, Francis Salt Lake City, Utah Geol. 23·157+43 Phi.Kap.Sig.-*1306*
A.B., Stanford, 1924

[5]Cameron, Meribeth Elliott Santa Monica Hist.141+254 Delt.Delt.Delta-*1325*
Campbell, Clyde Leroy Altadena Min. 92·46+21 Theta Xi-*828*
Campbell, Daniel McPeak Glendale Econ. 85·98+65 Sigma Chi-*628*
A.B., Stanford, 1924
Campbell, Edward Strong Mare Island M.E. 185+66 Chi Psi-*588*
A.B., Stanford, 1924
Campbell, Ian James San Mateo M.E. 111+2 Theta Chi-*1383*
Campbell, Irene A. San Jose Econ.90·91+63 Del.Del.Del.-*1325*
A.B., Stanford, 1924
[5] Campbell, J. Frank Pasadena Econ. 46·126+30 12 Sequoia
Campbell, John Donald San Francisco C.E. 175+0 Alpha Delta Phi-*J*
[5]Campbell, Thomas Allen Phoenix,Ariz. Law 91·48+33 145 Toyon
[10]Campbell, Walter McNutt Alhambra LD 48–25 AlphaSigmaPhi-*1357*
[34]Canfield, Laurence Picknell Santa Cruz LD 56–16 Sigma Chi-*1091*
Cannon, James Leonard Palo Alto Ed. G.A. 111+112 301 Addison-p
[1]Cannon, James Z. Scranton, Pa. LD sp. 9–9 464 Hamilton-p
[3]Cannon, Robert Proctor Palo Alto LD 15+0 301 Addison-p
Capell, Katherine F. Council Bluffs, Ia. LD 94+141 DeltaDeltaDelta-*1325*
Card, George Holt Denver, Colo. Econ. 78·102+112 Chi Psi-*588*
A.B., Stanford, 1924
[5]Cardoza, Alfred Thomas Palo Alto LD 22·103+11 760 Homer-p
Carey, Clarence William Palo Alto Econ. 115–1 Kappa Sigma
Carey, George Edward Palo Alto Econ. 43·143+4 KappaSigma-*1326*
[4]Cargill, Gladys Lermond Marietta, O. Hist. gr. Madroño
B.S., Boston University, 1923
[4]Cargill, Oscar Marietta, O. Engl. gr. Madroño
B.S., Wesleyan, 1922
[5]Carlsmith, Carl Wendell Hilo, T. H. LD 93+100 201 Toyon-*607*
Carlsmith, Margaret Estell Hilo, T. H. Med. gr. 2217 Buchanan, SF-sf
A.B., Stanford, 1922
[4]Carlsmith, Merrill Lawrence Hilo, T. H. LD 201 Toyon-*607*
Carnahan, Charles Trunnell Los Angeles LD 45+34 128 Encina
[324]Carnahan, Kenneth Emerson San Jose LD 136+19 Chi Psi-*588*
[1]Carniato, John James Westwood LD 6–15 306 Encina
Carpenter, Marion B. Santa Paula Engl. 135·45+36 178 Roble-*527*
A.B., Stanford, 1924
[4]Carr, Esther Marie White Bear, Minn. Sch. Ed. gr. 177 Roble
A.B., Carleton, 1918
[5]Carr, John Edwin Porterville Law 72·68+36 168 Kellogg-p
Carr, Robert Mack Stockton LD 89+69 Theta Chi-*1383*
Carr, William George Los Angeles Engl. 135·49+71 345 Lincoln-p
A.B., Stanford, 1924

Carriere, John G., Jr.	Washington, La.	LD 93+78	215 Branner
[4]Carroll, Elsie Chamberlain	Provo, Utah	Ed. G.A. ‡	Runnymede, RFD 1,p
[5]Carroll, Joseph Snyder B.S., Utah, 1920; Engineer, Stanford, 1924	Provo, Utah	EE. gr.	R.F.D. 1, Box 8A, p
[4]Carson, Charles A. A.B., Arizona, 1921	Casa Grande, Ariz.	Ed. gr.	SigmaAlphaEpsilon-1305
[12]Carson, James G.	San Francisco	Pre-Med.113·30+4	Alp.Del.Phi-*J*
Carter, Charles Vance	Oakland	M.E. 124+49	Delta Tau Delta
[4]Carter, Clinton C.	Reedley	Math. ‡	465 Hawthorne-p
Carvell, Margaret George	Stanford Univ.	Engl.-Jn. 143+100	263 Roble-*993*
[234]Carver, Keath L.	Los Angeles	Econ. 120+146	116 Branner
[134]Carver, Lloyd Charles	Trident, Mont.	Law 157+41	PhiSigmaKappa-*538*
[1]Cary, Colin Reed	Mandan, N. D.	LD 15–21	33 Sequoia
[4]Cary, Lucy Virginia A.B., Mills, 1921	San Leandro	Educ. gr.	480 Bryant-p
Casad, Barry	Raritan Arsenal, N.J.	LD 46–5	127 Encina
[4]Case, Evelyn Hart A.B., College of the Pacific, 1922	Santa Clara	Pre-Med. gr.	924 Lincoln, SC-sc
Case, Myron Durfee	Sunnyvale	M.E.48·105+120	209Holl'n'bk,S-s
[5]Case, Nelson Perry A.B., Stanford, 1924	Palo Alto	Phys. gr.	659 Forest-p
[12]Cassel, Chester A.B., Stanford, 1923	Los Angeles	Geol. gr.	35 Sequoia
Castner, Huntley	Los Angeles	LD 55+5	Phi Kappa Psi-*1333*
Cathcart, Wallace Daniel	Palo Alto	LD 46+46	1215 Emerson-p
[4]Catlin, Robert Allen	Kingsburg	Educ. 45·0+0	241 Toyon
Cattoir,Francis Raymond	Arroyo Grande	LD 43+41	303 Encina
[3]Caughlin, Clifton	Phoenix, Ariz.	LD 12–5	Encina
Cavanaugh, Robert Daniel A.B., Stanford, 1924	Los Angeles	Econ. 45·142+101	Chi Psi-*588*
[12]de Cazotte, Michel Marie A.B., Stanford, 1924	Palo Alto	Chem.57·124+70	343Middlefield-p
[5]Center, Hugh Stuart	San Jose	LD 44+35	316 Encina
[4]Center, Mary Stuart	San Jose	Educ. ‡	149 Roble
Chaffee, Clare Speelman A.B., Stanford, 1924	Garden Grove	Chem. 90·95+*23*	255 Toyon-*1171*
Chaffee, John Matthew	Bloomington	LD 42–1	416 Encina
Chalmers, Harry Hollis	Pocatello, Ida.	Law 14·124–21	Kappa Alpha-*1356*
Chamberlain, Robert Stoner	Palo Alto	Hist. 5·136+163	617 Waverley-p
Chamberlin, Joseph C. A.B., Stanford, 1923, A.M., 1924	Palo Alto	Ent. gr.	627 Emerson-*878*
[1]Chamberlin, Paul Damon	Los Angeles	LD sp.	203 Encina
[34]Chambers, Dudley Elston	San Diego	LD 15–5	447 Encina

[4]Chambers, Eleanor K. Los Angeles Chem. gr. Roble
A.B., California, 1922
[4]Chambers, Elsie Irene Huntington Beach LD 520 Everett-p
[1]Chan, Gumdock San Francisco Med. gr. Chinese Club
A.B., Stanford, 1922
Chandler, Carol Adelene San Diego LD 43·43+44 170 Roble-*842*
Chandler, Harrison G. O. Hollywood LD 86+5 Delta Kappa Epsilon-*O*
Chandler, Lewis Whitney Los Angeles Econ. 135·47+27 66 Sequoia
A.B., Stanford, 1924
[12]Chandra, Mahesh Delhi, India Econ. gr. 510 Encina
A.B., California, 1922
[12]Chang, David Kiong Honolulu, T.H. Phyl. gr. Chinese Club-*1033*
A.B., California, 1922
Chantry, Kenneth Neal Los Angeles Law 102+9 Delta Chi-*1304*
Chapman, Irving E. Arlington Hghts., Ill. C.E. gr. 19 Cabrillo-*1021*
B.S., Lewis Institute
Chappellet, Cyril Los Angeles LD 34–23 417 Encina-*1170*
Chaquette, Marion Camille San Francisco LD 83+33 Delta Gamma-*1366*
Charles, Allan Earle Palo Alto Law 135+135 PhiDeltaTheta-*1334*
[5]Charles, Benjamin Cliffe Los Angeles Econ. 16·107–14 Alpha Delta Phi
Chase, Don Marquis Atascadero Hist. 2·181+79 659 Middlefield
A.B., Stanford, 1924
Chase, Edwin Morey Delta, Colo. LD 11·89+55 Phi Gam.Delta-*1324*
[5]Chase, G. Elizabeth Palo Alto LD 37·78+29 331 Lincoln-*717*
Chase, Howard Stephen San Jose Econ. 129+74 DeltaTauDelta-*1363*
Chase, M. Bernice San Jose LD 46+30 348 Roble
[5]Chase, Mary Katherine Palo Alto Fr. gr. 331 Lincoln-*717*
A.B., Stanford, 1922
Chedister, Arthur William Lemoore C.E. 10·140+4 69 Sequoia
Cheek, William Virgil Springfield, Mo. Educ. gr. 515 University-p
A.B., Southwest Missouri State Teachers' College, 1923; A.M., Stanford, 1924
[4]Chelf, Clyde Franklin Fresno LD sp. 761 Everett-p
Cheng, Tung Ho Anhui, China Educ. 135·45+15 Chinese Club-*11*
A.B., Stanford, 1924
[5]Cheu, Henry Docfoo Canton, China Zool. 135+59 Chinese Club-*11*
[12]Chi, Chih-Ho Sui Yuan, China Educ. ‡ 2–10 Chinese Club-*11*
[1]Chi, Kuo-Liang Tientsin, China Educ. gr. Chinese Club
A.B., Stanford, 1923
Chilcote, Russell Cooper Los Angeles Med. gr. *2323* Sacramento, SF-sf
A.B., Stanford, 1921
Chorbajian, Albert K. Fresno Med. gr. *2321* Sacramento, SF-sf
A.B., Stanford, 1921
[5]Christensen, Parley A. Menlo Heights Engl. gr. University Park
B.S., Utah Agricultural, 1914

Christie, Howard Chandler A.B., Stanford, 1924	Hollywood	Econ. 180+104	DeltaKappaEps.-*O*
Chuan, Tseng-Ku	Shanghai, China	Phil. 90-50+57	329 Union-*1129*
[5]Chuck, Faw-Yap A.B., Stanford, 1922, Engineer, 1923	Canton, China	Chem. gr.	12 Cabrillo-*1033*
[12]Church, Clifford Carl A.B., Oklahoma, 1923	Carmen, Okla.	Geol. gr.	256 Kellogg-*785*
Churchill, Pauline W.	Bartlesville, Okla.	LD 76+34	267 Roble-*1179*
[4]Churchill, Ruth Elizabeth	Palo Verde	LD ‡	324 Roble
[5]Cilley, Herbert Arthur	Long Beach	Phyl. 108+52	557 Hamilton-p
[1]Claflin, Paul Cuddeback A.B., Stanford, 1923	Los Angeles	Phil. gr.	Phi Delta Theta
[3]Clapp, Elizabeth Earl	Burlingame	LD 52–13	Kappa Kappa Gamma
[4]Clapp, Madge A.B., Upper Iowa, 1920	Santa Rosa	Hist. gr.	167 Roble
[4]Clark, Alfred Fuller	Rivera	LD 4–15	9 Union
Clark, Donald Eastman	Stanford Univ.	Chem. 143+132	4 Cabrillo-*94*
†[12]Clark, Donald M.	Gillette, Wyo.	LD 15+7	358 Encina
[4]Clark, Dorothea Miller A.B., Stanford, 1922	Los Angeles	Ed. G.A. gr.	182 Roble
Clark, Dorothy Louise A.B., Stanford, 1923	Petaluma	Sch. Ed. gr.	GammaPhiBeta-*1337*
Clark, Esther Bridgman A.B., Stanford, 1921	Stanford Univ.	Med. gr.	2217 Buchanan, SF-sf
[12]Clark, Everett Leonard A.B., Stanford, 1923	Fresno	C.E. gr.	311 Union-*507*
Clark, G. Houghton	Virginia City, Mont.	LD 46+24	402 Encina
[12]Clark, Howard Marshall A.B., Stanford, 1924	Ashland, O.	Econ. 182+16	PhiDeltaTheta-*1334*
Clark, John Woodhull	Aberdeen, Wn.	LD 47+17	344 Encina
[5]Clark, Joseph Edward	Los Angeles	Geol. 116–5	Zeta Psi-*B*
[12]Clark, Leslie Madison A.B., Stanford, 1924	Sawtelle	Geol. gr.	240 Embarcadero-p
§[1]Clark, Mary Fox A.B., Mills, 1922	Upland	Sch. Ed. gr.	Madroño
Clark, Orion Frederick	Los Angeles	Law 132–4	222 Toyon
[1]Clark, Philip Corriston A.B., Stanford, 1921, Engineer, 1923	Stanford Univ.	E.E. gr.	7 Alvarado
[2]Clark, Ray Eldon	Berkeley	LD 37–3	3 Alvarado
Clark, Robert Wellington	Salinas	LD 47+26	334 Encina
[5]Clark, Thomas Stewart	Wilmington	LD 74+3	PhiGammaDelta-*1324*

† Deceased February 21, 1924
§ Deceased January 5, 1924

[1]Clark, Truman Howe	Petaluma	LD 29–3	Alpha Kappa Lambda
[5]Clark, Wayne Gerald	Los Angeles	Hist. 32·93+32	The.DeltaChi-*1331*
[5]Clark, William Alexander	Venice	LD 5·117–1	61 Sequoia
[23]Classen, Willard John A.B., Stanford, 1922	Menlo Park	Geol. gr.	Theta Xi-*1355*
[1]Clayson, Frederic H.	Portland, Ore.	LD ‡ 0–11	55 Encina
[14]Cleary, Gerald George	San Francisco	Pre-Med. 67·54+19	San Carlos-sc
[5]Cleaveland, Loraine	Berkeley	Econ.46·116+53	KapKapGam-*1354*
[12]Cleaveland, Norman	Berkeley	M.E. 207+13	220 Encina-*628*
Clifford, Charles Randall	Turlock	LD 82+19	131 Toyon-*879*
[12]Clippinger, Virginia W. A.B., Western Reserve, 1919	Cincinnati, O.	Engl. gr.	Madroño
Clock, Anita Kathreen	Redlands	LD 45+14	258 Roble
[2]Close, Frank Marion B.S., Chicago, 1923	San Francisco	Med. gr.	5 Sequoia
Close, Gerald Victor	Palo Alto	LD 22–30	161 Addison-p
[1]Close, William Harry	Mill Valley	LD 5–14	344 Encina
[5]Clough, Albert Clarence	Greeley, Colo.	Econ. 92·81+70	Alp.Sig.Phi-*1357*
Clough, Philander O.	Fillmore	Law ‡ 37–17	146 Toyon-*1120*
Clyde, Paul Hibbert A.B., Stanford, 1921, A.M., 1922	Victoria, B. C.	Hist. gr.	651 Waverley-*141*
[3]Cobb, Alma Loleta	Fresno	LD ‡ 30+41	335 Roble
Cobe, Frank S.	Ann Arbor, Mich.	M.E. 117·49+14	207 Branner
Cobe, Herbert M. A.B., Michigan, 1923	Ann Arbor, Mich.	Pre-Med. gr.	522 Encina
[5]Coblentz, Richard	San Francisco	Econ. 163+47	200 Branner-*848*
Cody, Bernard Anthony A.B., Stanford, 1921	San Francisco	Med. gr.	220 Golden Gate, SF-sf
Coen, Frank Hugenin	Monrovia	LD 84·64–1	Phi Kap. Sigma-*1306*
Coen, Richard Davis	Monrovia	Econ. 48·90+61	Phi Kap. Sig.-*1306*
Coffin, Harry Tristram	Los Angeles	LD 81–13	Delta Upsilon
Cohen, Marjorie A.B., Stanford, 1924	San Francisco	Engl.-Jn. 181+16	101 Roble-*674*
[5]Cohen, Mark Madison A.B., Stanford, 1922	Portland, Ore.	Law gr.	564 Encina-*1184*
[5]Cohn, Arthur Cardinet	San Francisco	Law 118+120	548 Encina-*735*
Cohn, Lawrence Ted	San Francisco	Hist.-Jn. 139+76	546 Encina-*735*
Colby, George Wilbur	Stanford Univ.	LD 130+20	54 Sequoia-*864*
[12]Cole, Cornelius	Hollywood	LD 50–26	Beta Theta Pi-*1335*
Cole, Ralph Emerson A.B., Stanford, 1924	Los Angeles	Fr. gr.	330 Union
Cole, Sidney Walker	Sacramento	Econ. 132+16	90 Sequoia-*1321*
[12]Coleman, Courtney C.	Prescott, Ariz.	LD 24–21	306 Encina-*M*

Coleman, Norton	Pasadena	LD 47–1	246 Encina
Colgan, Eugene Cyril A.B., Stanford, 1924	Elyria, Ohio	Econ. 64·116+15	Del.TauDel.-*1363*
[23]Collens, Bernard Scoles	Brooklyn,N.Y.	LD ‡ 30+9	110 Encina
Collett, Charles Elmer	San Francisco	Law 142+70	Delta Tau Delta
[12]Collette, Germaine H. Doctorat en Philosophie et Lettres, Liège, 1922; Ph.D., Stanford, 1924	Seraing, Belgium	Engl. gr.	Madroño-*959*
*[3]Collins, Erle L. A.B., Stanford, 1922, Engineer, 1924	Long Beach	C.E. gr.	1310 E. 2nd st., LB-lb
Collins, John Stephenson	Courtland	LD 45+3	406 Encina
Collins, Junior Jennings	Los Angeles	Law 173–1	3 Sequoia
[4]Collins, Lloyd Minot A.M., Denver, 1923	Johnstown, Colo.	Educ. gr.	253 Fulton-p
Collins, Marion Carter	Turlock	LD 41+6	329 Encina
Colton, Arthur Harry	San Francisco	LD 46+4	17 Encina
Colvin, Timothy Edward	Piedmont	M.E.6·179+8	PhiGam.Delta-*1324*
Comparet, Bertrand Lewis A.B., Stanford, 1924	San Diego	Law40·141+28	1201P.A.,C.T.-*1123*
Compton,Frank Andrew,Jr.	Stirling City	LD 46+33	138 Encina
Compton, Russell Leslie A.B., Stanford, 1924	San Diego	Econ. 49·131–2	PhiSig.Kap.-*538*
Conard, Mildred Rovena A.B., Stanford, 1924	San Diego	Hist. 181+146	Pi Beta Phi-*1332*
Condit, Thomas Ayers	Los Angeles	LD 91+50	Phi Gamma Delta-*1324*
[234]Connell, Helen Loretto A.B., Washington, 1917	Los Angeles	Hist. gr.	353 Melville-p
[23]Conner,William Watkins	Modoc, Ind.	LD 29+21	117 Encina
Conners, George Wilbert, Jr.	Santa Rosa	LD 48+37	403 Encina
Connolly, John Briggs A.B., Stanford, 1924	San Francisco	Law 188+118	132 Toyon-*605*
Connolly, Thomas Edward	Stockton	Econ. Jn. 111+10	Theta Chi-1383
[23]Conover, Arthur Brooks	Orange, N.J.	Law 126+171	Kappa Sigma-*1326*
Conron, Calvin H., Jr.	Modesto	Law 138+52	409 Encina-*577*
Conron, Harry Maxwell	Modesto	LD 43+24	115 Encina-*577*
Conroy, Thomas Francis, Jr.	Santa Cruz	LD 47+58	328 Encina
Converse, Willard Baxter	Palo Alto	LD 50+25	Runnymede-Box906,p
Conway, Mary Josephine	Menlo Park	LD 89+65	Menlo Park-mp
[12]Cook, Horatio Nelson	San Francisco	LD 45–25	130 Branner
[2]Cook, Lawrence Harvey A.B., Stanford, 1921, A.M., 1922	Palo Alto	M.E. gr.	157 Bryant-p
Cook, Robert Chambers	Palo Alto	LD 153+109	832 Kipling-p
Cooke, Dorothy Soden A.B., California, 1923	Los Angeles	Sch. Ed. gr.	Pi Beta Phi-*1332*

Cooke, Edward Howd,Jr. Los Angeles LD 33–16 232 Encina
[4]Cooke, Marian Lake City, Minn. Chem. gr. 262 Roble
A.B., Oberlin, 1919; A.M., Utah, 1922
Cooke, William Clifford Palo Alto Med. gr. 2350 Calif., SF-sf
A.B., Stanford, 1922
[1]Cooke,WilliamHendrick TerreHaute,Ind LD 44·60–3 Chi Psi
[3]Cooley, Chester Lynn Pasadena S.Biol.-Med. 67·109+48 *-847*
Cooper, John Benjamin Reno, Nev. LD 41+50 140 Encina
Cooper, Lloyd Edward Roseville M.E. 186+146 83 Sequoia-*1075*
A.B., Stanford, 1924
Cooper, Roger Joseph San Francisco LD 88+7 237 Branner
[4]Cooper, William A. Mountain View LD 9 Alvarado
Coplen, James Ballou Corona Econ. 81·85+11 Delta Chi-*1304*
Coppock,KennethR. Sampsonton,Canada Econ.45·136+142 229Bran'r-*1214*
A.B., Stanford, 1924
Coppock,R.Clifton Sampsonton,Canada Econ. 45·136+63 229 Bran'r-*1214*
A.B., Stanford, 1924
[3]Corby, Grant White San Francisco Geol. gr. 200 Bush, SF-sf
A.B., Stanford, 1922, A.M., 1923
Cornell, Elton Fred Sunnyvale Chem. gr. AlphaKap.Lambda-*658*
A.B., Stanford, 1923, A.M., 1924
Cosgrave, Margaret Eleanor Fresno LD 73+33 Chi Omega
[4]Costabel, Violette Alma San Jose Fr. gr. 117 Roble
A.B., College of the Pacific, 1922
Costello, Lorenz Eau Claire, Wis. Law gr. 312 Union-*1265*
A.B., Stanford, 1924
Cotton, Norman Winfield Fort Bragg LD 43+17 426 Encina
Cotton, R. Charmion Fort Bragg LD ‡ 18+6 275 Roble
[12]Cottrell, Lillian Hebron, Neb. Bact. 198+231 102 Roble-*657*
A.B., Stanford, 1924
Coughran, Thomas Bristol Visalia LD 41–6 229 Encina
[2]Coulter, Lewis Clark Portland, Ore. LD 9–4 Chi Psi-*588*
A.B., Stanford, 1923
[5]Coulthard, Cecile Mae Hastings, Mich. Cl. Lit. gr. Madroño
A.B., Michigan, 1919
[12]Coulthurst,Lawrence Joseph San Diego Chem. gr. Phi Kappa Sigma-*1306*
A.B., Stanford, 1924
Coverley, Harvey Mills Los Angeles Law 182+187 Delta Upsilon-*1353*
A.B., Stanford, 1924
Coverley, Ruth Rosalind Hollywood LD 45+71 269 Roble-*43*
[5]Cowdery, Karl Montague Oberlin, O. Psych. gr. 420 Florence-*1186*
A.B., Oberlin, 1915; A.M., Stanford, 1922
[3]Cowen, Philip Henry Langdon, Canada LD 23·71+2 68 Sequoia-*1053*

Cowing, Ralph H. A.B., Stanford, 1922, J.D., 1924	Carson City, Nev.	Law gr.	14 Union-588
Cox, Alvin Joseph, Jr.	Palo Alto	LD 45+77	1118 Emerson-p
Cox, Catharine Morris A.B., Stanford, 1912, A.M., 1913	Stanford Univ.	Psych. gr.	25 Alvarado-*1133*
Cox, Clyde Edward	St. Anthony, Ida.	LD 47+25	60 Encina
Cox, Harold Eugene, Jr.	Pasadena	LD 35–15	200 Encina
Cox, Hope A.B., Stanford, 1924	Chappaqua, N. Y.	Law 98·92+73	363 Roble-*1173*
[3]Coxhead, Ernest B.	Berkeley	LD 13–36	63 Sequoia
[4]Coy, Nora Parker A.B., Stanford, 1915	San Bernardino	Engl. gr.	Sigma Kappa
[5]Coyle, Daniel Kenneth	San Jose	E.E.sp.182–7	528 So.2d,SJ-*1218*
[1]Cozzi, Daniel O.	Los Banos	C.E. ‡ 23–25	315 Union
Craft, Benjamin Cole	Cupertino	LD 50+34	Cupertino-c
Craig, Catherine Janett	Cheney, Wash.	Hist. 110·44+13	102 Roble
[23]Craig, George Edward A.B., Stanford, 1924	Cheney, Wash.	Educ. 135·46+47	630 Bryant-p
[1]Craig, Joe Allen A.B., Stanford, 1923	Piedmont	Med. gr.	Kappa Sigma
[12]Cram, Eileen Mae A.B., Stanford, 1924	Colfax, Wash.	Econ.90·96+150	465 Hawthorne-p
[34]Cramer, Glenn Edwin	Santa Monica	LD 91–6	12 Sequoia
Cramer,Sterling Sherman	Cleveland,O	Psych. 94·45+36	21 Sequoia
[4]Crandall, Harriet Ruth A.B., Stanford, 1914	Palo Alto	Ed. G.A. gr.	737 Waverley-p
[23]Crandall, Kenneth Hartley A.B., Stanford, 1924	Los Angeles	Geol. 180+228	PhiKap.Sig.-*1306*
[1]Crandall,RussellKarl	KlamathFalls,Ore.	LD 15–7	
Crase, Herbert Richard A.B., Stanford, 1923	Los Angeles	Med. gr.	2215 Buchanan, SF-sf
Craven, Wilson	Bellingham, Wash.	Law 164+212	538 Encina-*1005*
[1]Cravens, Robert Irving	South Pasadena	Econ. 123+9	Zeta Psi
[74]Crawford, Albert Hartley	Los Angeles	Econ. 51·81–23	Sigma Chi-*1091*
[5]Crawford, Alonzo Lawson A.B., Stanford, 1923	Stan. Univ.	Law gr.	309 Union-*1164*
Crawford, Caspar G.	Dickinson, N.D.	LD 125+46	55 Sequoia-*542*
[5]Crawford, Lynn Howard	Santa Ana	Hist. 53·95+66	255 Toyon-*576*
[23]Creagh, Merrick W.	San Francisco	LD 29+23	325 Cherry, SF-sf
[23]Crebs, Elizabeth Stewart	Los Angeles	LD 30+37	309 Roble
Creglow, Loran Andrew A.B., Stanford, 1922	Palo Alto	Min. gr.	412 Everett-p
Cressey, Muriel Mildreth	Modesto	LD 46–15	207 Roble

[4]Crever, Dorothy Rose A.B., Stanford, 1921	San Jose	Sch. Ed. gr.	14 Broadway, SJ-sj
Crever, Fred Emanuel	San Jose	LD 151+247	14 Broadway, SJ-sj
Crickmay,Colin Hayter A.B., British Columbia, 1922	Vancouver,B.C.	Geol. gr.	545 Forest-p
Criley, Theodore Brotherton	Carmel	LD 49+56	315 Encina
[23]Crimmins, EdwardCustis	San Francisco	LD 30+5	119 Encina
Crist, Frank Lee A.B., Stanford, 1924	San Francisco	Law 45·135+107	423 Encina
Crist, Marion L.	San Bernardino	LD 52·96+83	127 Branner
Crobaugh, Alva Bernard	Palo Alto	Econ. 155+184	475 Forest-p
Crocker,George Nathaniel	San Francisco	LD 95+147	139 Branner
[5]Cromwell, Lewis Hall	Palo Alto	Law 90·67+108	218 Cowper-p
[3]Crookshank, Miles J.	Santa Ana	LD 11+3	419 Encina
Cross, Marion Francel	Ogden, U.	LD 81+9	Gamma Phi Beta-*1337*
Crump, John Richard B.S., Linfield, 1923	Lakeport	Educ. gr.	375 Everett-p
[12]Crump, Ross Owen	San Jose	Econ. 125+180	R2, Box 330, SJ
Crutcher, Ruth Cary	Palo Alto	Span. 58·84+50	651 Waverley-p
Cuddeback, Murray William	Monolith	LD 82+4	Zeta Psi-*B*
Cuenod, Charles Branch	Los Angeles	LD 34–6	400 Encina
[12]Culp, George Joseph	Pacific Grove	LD 7·119+115	64 Sequoia
Cummings, Benjamin Franklin A.B., Utah, 1913	Provo,U.	Fr. gr.	235 Emerson-p
[4]Cummings, Effie May A.B., California, 1921		Soc. S. gr.	212 Roble
Cummings, Lloyd Franklin	Ferndale	LD 89+119	38 Sequoia
Cummings,RobertHenry	SanBernardino	LD 39+15	236 Encina
[1]Cunningham, McDowell	Los Altos	Econ. 49–32	Los Altos-la
[4]Currie, Robert John A.B., McMasters, 1906	Redwood City	Phil. gr.	Redwood City-rc
Curtner, Alberta	San Jose	Fr. 62·72+14	248 Roble
Curtner, Dorothy	San Jose	Econ. ‡ 33–6	246 Roble
Curtner, Helen Lewis	Warm Springs	LD 31·43+6	348 Roble
Cypher, S. Clark	Arcadia	LD 77+29	Delta Chi-*1304*
Dahler, Dorothy Inez	Woodland	Math. 133+61	203 Roble-*714*
Dallas, Donald A A.B., Stanford, 1923	Redlands	Med. gr.	2286 Jackson, SF-sf
Daly, Charles Francis A.B., Stanford, 1924	Eureka	Econ. 45·135+88	221 Toyon
Daly, John Joseph	Salt Lake City, U.	LD 40–7	207 Encina
[4]Dana, Charles A.	Pullman, Wn.	Math. ‡	431 Columbia-m
[5]D'Andrea,Martin Angelo	StanfordUniv.	LD 10·81+35	238 Toyon-*1092*

[5]Daniels, John Q. A., Jr. A.B., California, 1921	Portland,Ore.	Med. gr.	253 Hamilton-p
Dannenbaum,Mildred D. A.B., Stanford, 1924	Parsons,Kans.	Hist.-Jn. 180+125	Kingscote-*506*
[12]Darling, Grace	Salt Lake City, U.	Hist. 95·66–10	251 Roble-*1223*
Darling, Herbert H. A.B., Stanford, 1923	San Francisco	Med. gr.	45 16th ave., SF-sf
Darling, Velva Gertrude	San Luis Obispo	LD40·89+11	Kap.Alph.Theta-*1336*
[23]Darlington,ThomasDouglas	Burley,Ida.	Engl.-Jn. 112+45	9 Cabrillo
[4]Dary, Bernice A.B., Kansas, 1922	Long Beach	Pol. S. gr.	146 Roble
[1]Dass, Matta Amar	Peshawar, India	LD 53+7	Mayfield-Box 294, p
Daugherty, Gail Burtis	Yuba City	LD 30–10	128 Encina
[5]Daugherty, Lyman H.	Robinson, Ill.	Bot. 10·160+181	801 Waverley-p
Daves, Delmer Lawrence	Los Angeles	LD 75+56	Sig.AlphaEpsilon-*1305*
David, Leon Thomas A.B., Stanford, 1924	Vallejo	Law 8·172+170	201 Union-*1013*
David, Nelson Binkley	Alhambra	LD 46+47	223 Encina
Davidson,Helen P. A.B., Stanford, 1924	N. Westminster,B.C.	Psych. 78·103+160	265 Roble
[5]Davidson, Horace	Berkeley	LD 11–9	136 Encina
[5]Davidson, Roland G. A.B., Stanford, 1924	Bethany,Conn.	Law gr.	33 Sequoia-*561*
Davidson, William O	Santa Barbara	Econ. 140+105	Delta Upsilon-*1353*
Davies, David Lloyd	Portland, Ore.	Law 140+119	3 Sequoia-*976*
Davies, George Arthur	Los Angeles	Econ.98·42+17	Kappa Alpha-*1356*
[4]Davis, Mildred Elizabeth	Long Beach	Engl. ‡	312 Roble
Davis, Paul Cannell	Cleveland, O.	LD 49+59	6 Alvarado-*989*
Davis, Ruth Carol	Palo Alto	Econ. 37·96+54	350 Roble-*1275*
Davis, Victor DeWitt	Mayfield	M.E. 10·86+48	Menlo Park
Davis, Wilfrid L.	Los Angeles	LD 41+5	Kingscote-*1078*
Davison, Malcolm	Ontario	M.E. 90·89+26	331 Encina-*1149*
[1]Davison, Maynard P. A.B., Stanford, 1924	Honolulu, T.H.	Econ. 181+29	Box 253, p
[124]Dawes, Rupert Truman	Santa Ana	Econ. 131+0	Theta Delta Chi-*1331*
Dawson, Clarence H.	Salt Lake City, U.	LD 45·145+78	56 Sequoia-*705*
[1]Dawson, Irvin Milo	Estes Park, Colo.	LD 15+15	46 Encina
Day, A. Grove	Baldwin Park	LD 86+114	113 Toyon
[234]Day, Charles Edward	Salinas	LD 50+0	84 Sequoia
Dean, Ardys Thelo A.B., Stanford, 1924	Berkeley	Engl. 187+169	541 Encina-*809*
[3]Dearborn, Frances Jane	Santa Barbara	LD ‡ 15+14	333 Roble
[4]Deats, Edna M.	New Britain, Conn.	LD sp.	Roble

DeBoeck, Pierre — Brussels, Belgium — E.E. gr. — 325 Union-*959*
Ingénieur Civil des Mines Louvain, 1923; Engineer, Stanford, 1924

[1]DeEds, Floyd — Cleveland, O. — Phar. gr. — 1920 Post, SF-sf
A.B., Western Reserve, 1916, A.M., 1920; Ph.D., Stanford, 1924

Deffebach, Charles Arthur — Los Angeles — Law gr. — Kappa Sigma-*1326*
A.B., Stanford, 1923

Deffebach, John, Jr. — Billings, Mont. — LD 76+34 — AlphaSigmaPhi-*1357*

[23]DeFrees, Jack Thomas — Berkeley — LD 22–3 — 233 Encina

[12]DeGroot, Dudley Sargent — SierraMadre — Econ. 181+203 — 219 Encina-*1361*
A.B., Stanford, 1924

[5]Dekker, William Nicholas — San Francisco — LD 33+7 — 336 Encina

Delahoyde, D. Ellowene — Los Angeles — Hist. 180+11 — Alpha Omicron Pi
A.B., Stanford, 1924

[4]Delamarter, Frank A. — San Jose — LD 15+12 — 863 Davis, SJ-sj

Delbon, Montana — Turlock — Span. gr. — Manzanita
A.B., Stanford, 1923

[12]Delkin, James Ladd — Las Vegas, Nev. — Hist. 101·78–3 — 314 Union-*501*

[5]Dellepiane, Henry Carl — San Francisco — Chem. gr. — 535 Encina-Box 461, p
A.B., Stanford, 1924

[1]Deming, Chauncey Merrill — Los Angeles — Geol. gr. — 859 Lytton
B.S., Princeton, 1923

[3]Dennis, Charles Milroy — Los Angeles — LD 13+0 — 430 Encina

Dennis, Guy Hewitt — Los Angeles — Law 112+20 — 851 Lytton-p

[4]Derby, Mariquita — San Jose — Sch. Ed. gr. — Rt. B, Box 488, SJ-sj
A.B., Mills, 1921

[4]De Sombre, William E. — Anaheim — Sch. Ed. gr. — *223* Union
Ph.B., Chicago, 1902

[4]Detrick, Foster Blake — Palo Alto — LD — 1027 Waverley-p

Detrick Lawrence Everett — Bishop — Pre-Clin. 185+41 — 502 Encina
A.B., Stanford, 1924

DeTuncq, Harold Rief — Palo Alto — LD 54–14 — 2361 Middlefield-p

[1]Devereux, Walter James — San Francisco — LD sp.

Devlin, Hartley William — Los Angeles — LD 86+33 — Phi Kappa Sigma-*1306*

[1]DeVoss, James Clarence — San Jose — Psych. gr. — Mayfield-m
A.B., Colorado, 1911, A.M., 1912

[12]Devoto, Jerome Loyal — San Francisco — LD 94+1 — 436 Encina

[4]DeVries, Martin — Tranquillity — Sch. Ed. gr.
A.B., Stanford, 1923

DeWolfe, Norton Creemer — Burlingame — M.E. 141+80 — 1356 Vancouver, B-b

[24]Dexter, Delbert Morgan — Holtville — LD ‡ 8–7 — *32* Encina-*902*

Dice, Frank Child — Shoshone, Ida. — LD 89+23 — Theta Chi-*1383*

[7]Dickenson, Charles W. — Madison, Tenn. — LD 131+54 — 84 Sequoia-*80*

Dickey, Robert Bernard — Madera — LD 65+7 — Zeta Psi-*B*

[5]Dickey, William James — Madera — Law 131+63 — Zeta Psi-*B*

[1]Dickson, Glen Collins	Pasadena	M.E. 65·59–34	330 Union
Dietrich, Margaret Clara	Los Angeles	LD 94+107	Chi Omega
[5]Dill, David Bruce	Los Altos	Chem. gr.	Los Altos-la
B.S., Occidental, 1913; A.M., Stanford, 1914			
[4]Dillard, Walter Boone	Los Angeles	Sch. Ed. gr.	558 Lincoln-p
A.B., Oregon, 1900, A.M., 1901.			
Dillman, John A.	Los Angeles	Econ. 92·45–20	327 Union
Dillon, Hazel Bernice	Sacramento	LD 47+37	240 Roble
Dills, Leslie Harrison	Yakima, Wn.	Law 133+63	PhiGam.Delta-*1324*
Dinsmoor, Adelbert Hale	El Monte	LD 96+61	27 Sequoia
[5]Ditzler, Frank Wickham	Berkeley	LD 81+49	Chi Psi-*588*
Dixon, Robert Allen	Tulsa, Okla.	Phil. 135·46+24	205 Union-*1009*
A.B., Stanford, 1924			
[124]Dobbel, Edith Elizabeth	Palo Alto	Hist. 12·90+37	640 Forest-p
Dobbel, Lillian M.	Palo Alto	Geol. gr.	640 Forest-p
A.B., Stanford, 1924			
Dobbins, Leslie Edwin	Colusa	LD 46+54	250 Encina
[1]Dobbins, Lewis Trowbridge	Colusa	LD 64+18	28 Sequoia
[234]Dobie, Edith	Long Beach	Hist. gr.	Madroño
A.B., Syracuse, 1914; A.M., Chicago, 1922			
[5]Dobson, Leonard Garrard	Fresno	LD 98+159	247 Toyon-*554*
Dodd, Richard Ryland	Palo Alto	LD 28+34	1319 Bryant-p
Dodds, Alice	San Jose	Span. 135+87	Chi Omega
[4]Doebler, Rotha Gray	Los Angeles	Educ. 16+6	258 Roble
Doerr, Karl Philip	South Pasadena	LD 60+49	Delta Kappa Eps.-*1170*
[4]Dolan, Evelyn R.	Pittsburgh, Pa.	LD sp.	163 Roble
Dole, Norma Dorset	Springfield, Mo.	LD 121–12	Beta Theta Pi-*1335*
Dombaugh, Homer Kent	Gilroy	LD 73+5	556 Encina-*871*
Donohoe, Thomas Miller	Cordova, Alaska	Law gr.	151 Harriet-p
A.B., Stanford, 1923, J.D., 1924			
Dooling, Mary Eleanor	Hollister	Sch. Ed. gr.	Madroño-*1022*
A.B., California, 1923			
[12]Doran, John Joseph	Menlo Park	Cl. Lit. gr.	Menlo Park-mp
A.M., St. Mary's, 1901; Ph.D., Stanford, 1924			
Dorcy, John Biddle	Palo Alto	LD 41+39	821 Middlefield-p
[12]Dorman, Richard Allen	Spokane, Wn.	LD 30+22	49 Encina
[5]Dorresten, Edward Emile	Los Angeles	Econ.75·97+20	AlphaT.Ome.-1384
Dorris, Mildred	Phoenix, Ariz.	Math. gr.	Alpha Omi. Pi-*1367*
A.B., Stanford, 1924			
[4]Dorsey, Clyde A.	Monterey	S. Biol. gr.	Monterey-m
B.S., Kirksville (Mo.) State Normal School, 1917			
Dorsey, Eli Ellis	San Diego	LD 23+17	75 Encina

[12]Dorsey, Viola Marie — Menlo Park — Span. gr. — Menlo Park-mp
A.B., College of the Sacred Heart, 1923
[3]Doud, James Cooper — Monterey — LD 14–11 — 315 Encina
Dougan, Stanley — Chesterhill, O. — Med. gr. — Y.M.C.A., SF-sf
B.S., Ohio, 1914
[12]Douglas, Chesley McKinley — San Jose — Law 181+94 — 1101 S. 1st, SJ-sj
A.B., Stanford, 1924
[12]Douglas, Herbert Victor — Newton,Miss. — Law sp. 132–14 — 327 Emerson-p
[1]Douglass, Earl S. — Menlo Park — LD ‡ 14–16 — Alpha Delta Phi
[5]Douglass, Harl R. — Eugene, Ore. — Educ. gr. — 50 Encina ave.
B.S., Missouri, 1915, A.M., 1921
Douglass, Wilson Fisk — Council Bluffs,Ia. — Chem. 186+167 — 211 Toyon-*905*
A.B., Stanford, 1924
[5]Downer, Edward M., Jr. — Pinole — LD11·38+11 — Theta Delta Chi-1331
Downing, F. Harold — Fresno — Pre-Med. 101·40+26 — 556 Encina
Dows, Samuel Randall — Palo Alto — M.E. 79·122+13 — 1930 Waverley-p
A.B., Stanford, 1924
Doyle, Margaret Antonia — Menlo Park — LD 49+43 — Menlo Park-mp
Doyle, Virginia — Fresno — LD 24·55+23 — Pi Beta Phi-*1332*
Dozier, Dave Ford — Susanville — Med. gr. — 2286 Jackson, SF-sf
A.B., Stanford, 1924
Draper, F. Douglas — Mt. Lakes, N.J. — Chem. 126+0 — DeltaTauDelta-*1363*
Draper, Ralph Clayton — Palo Alto — LD 83+43 — Zeta Psi-*B*
[4]Dressler, Olie Gaylon — Reedley — Chem. gr. — 321 Kipling
A.B., College of Emporia, 1914
[4]Dressler, Pearl Adams — Los Angeles — Sch. Ed. gr. — 321 Kipling
Dressor, M. Irene — Holtville — Span. gr. — DeltaDeltaDelta-*1325*
A.B., Stanford, 1924
[5]Drew, Harvey Linford — Alhambra — LD 130+19 — Theta Xi
[1]Drew, Marguerite P. — Stanford Univ. — Pol. S. gr. — University Park
A.B., Swarthmore, 1920
Drew, Viva MacArthur — San Francisco — LD 44+18 — 270 Roble
[5]Driscoll, John Austin — New York, N.Y. — Econ. 150+84 — PhiDeltaTheta-*1334*
[23]Dryden, Horace Walter — Concord — LD 80+10 — Sigma Chi
Drysdale, George Sidney — Palo Alto — Min. 10·206+173 — 105 Churchill-p
A.B., Stanford, 1924
DuBois,LloydKriesel,Jr. — Vancouver,Wn. — Econ. 131+48 — 202 Branner
[124]Duncan, Carl Dudley — Fresno — Ent. gr. — Menlo Park-*4*
A.B., Stanford, 1923
Duncan, Philip C. — Virginia City, Mont. — LD 45+33 — 306 Encina
Duncan, Robert Cahoone — Red Bluff — LD 45+1 — 112 Encina
[5]Duncan, W. Bryan — Fresno — M.E. 153+145 — Lobata Lodge-*4*
Duncombe, Arthur Grosvenor — Pasadena — LD 42·42–3 — 242 Branner-*950*

Dunfee, Albert Moores	Oakland	LD 45+43	231 Encina
Dungan, Mary Virginia	Exeter	Hist. 66·65+62	AlphaOmicronPi
Dunlavy, Dorothy C.	Trinidad, Colo.	Engl. 133+66	Alpha Phi
[4]Dunlap, Carol Jane A.B., Stanford, 1912	Los Angeles	Span. gr.	Roble
[124]Dunlop, Rachel Thayer	Hartford,Conn.	Engl. 22·88+107	269 Roble-*1288*
Dunmire,Samuel Pearson A.B., Stanford, 1924	Greensburg,Pa.	Econ. 102·86+93	PhiDel.Tht.-*1334*
[27]Dunn, Ailsa Livingston	San Francisco	LD 27–3	277 Roble
[23]Durant, Raymond Case A.B., Stanford, 1923	Pasadena	M.E. gr.	427 Encina
[4]Durfee, Dorothy Elizabeth	Ventura	LD ‡	227 Roble
[5]Durkheimer, Rita Leone A.B., Oregon, 1923	Palo Alto	Psych. gr.	759 Cowper-p
[5]Durston, Wayne Alvin	Lodi	S. Biol. 15·165+108	36 Sequoia-*563*
[4]Dutton, John Ellis	Long Beach	LD 45–22	209 Toyon-*538*
[12]Duryee, Lawrence M. A.B., Stanford, 1924	Glen Ridge, N.J.	M.E. 182+17	PhiKap.Sigma-*1306*
[23]Dusinbury, James Myron	Oakland	LD 65+9	501 Encina
Dwight, Herbert McGilvray	Eureka	M.E. 177+210	Sigma Nu-*1385*
Dye, Alfred Thomas A.B., Stanford, 1924	Logan, Kans.	Econ. 41·143+59	202 Branner
[4]Dysart, Palmer Arthur	Phoenix, Ariz.	LD ‡	237 Toyon
[1]Eager, Ellsworth W.	Fairfield	Econ. 18–28	555 Waverley-p
[4]Eakin, Elizabeth A.B., Pomona, 1922	Claremont	Span. gr.	101 Roble
Eakin, Margaret Adelaide A.B., California, 1919	Berkeley	Med. gr.	Madroño
Eardley, Wendell Arthur	Bakersfield	Min. 122+18	223 Toyon-*602*
Earle, Margaret Mae	Palo Alto	LD 104+0	619 Webster-p
Easly, James Joseph A.B., Stanford, 1924	Puyallup, Wn.	Law gr.	331 Union
Eaton, Evelyn	Watsonville	Engl. 107·45+40	359 Roble
Eaton, Monroe Davis	Stockton	LD 46+79	215 Encina-*1209*
[5]Ebright, Miriam	San Francisco	Engl. 88+25	Kap.AlphaTheta-*1336*
Eckart, Charles Gorham	Honolulu, T.H.	LD 33–17	235 Encina-*654*
Eckhoff,Robert Holland	San Rafael	LD 99+83	Phi Kappa Sigma-*1306*
[4]Edgar, Bert Andrew	Fairdale, Tex.	LD 13–4	138 Toyon
[5]Edlin, Raymond Jerome	San Francisco	LD 47–25	109 Branner-*845*
Edmondson, Horace L.	Burbank	LD 76+6	404 Encina-*1295*
[4]Edson, Charles Farwell	Los Angeles	LD	238 Toyon
[13]Edson, Fanny Carter A.B., Wisconsin, 1910, A.M., 1914	Norman, Okla.	Geol. gr.	256 Kellogg-*885*

[12]Edwards, Harry Jack — San Diego — Econ. 181+60 — PhiDeltaTheta-*1334*
A.B., Stanford, 1924

Edwards, Muriel Emma — Wallace, Ida. — Med. gr. — 2211 California, SF-sf
A.B., Stanford, 1921

[5]Edwards, Robert H., Jr. — Los Angeles — Law 42·168+76 — Alp.TauOme.*1384*

[1]Eggleston, Thomas Hubert — Emmett, Ida. — M.E. 182+68 — 241 Toyon
A.B., Stanford, 1924

[12]Ehrhorn, Dorothy — Mountain View — Hist. 180+161 — 215 Churchill-p
A.B., Stanford, 1924

[5]Ehrhorn, Jack Macfarlane — Mt. View — Min. 197+155 — MountainView-mv

Eicher, Henry Martin — Washington, Ia. — LD 45+1 — 425 Encina-*1172*

[4]Eklof, Carl M. — College City — Educ. gr. — 132 Toyon
B.S., Idaho, 1916

[4]Eldred, Fred Huestis — El Centro — Sch.Ed.gr. — Bowdoin,CollegeTer.
B.S., Occidental, 1914; A.M., Stanford, 1916

[5]Elgin, Robert Anderson — Madisonville, Ky. — Min. 10·146+20 — 480 Seale-*1355*

Eller, Charles Howe — Albuquerque, N.M. — LD 92+34 — Theta Xi-*1355*

[4]Ellestad, Thelma B. — Central Point, Ore. — LD ‡ — 277 Roble

[3]Elliott, David Kenneth — Los Angeles — LD ‡ 10–6 — 209 Encina

[34]Elliott, Elmer Ellsworth — Los Angeles — Econ. 147–8 — Phi Gam. Delta-*1324*

Ellis, Emmett — Windsor, Mo. — Educ. gr. — 421 Cowper-p
A.B., Central Missouri State Teachers' College, 1920; A. M., Stanford, 1916

[12]Ellis, James Land — Modesto — Engl. gr. — 254 Emerson-p
A.B., Washington, 1920, A.M., 1921

[5]Ellis, Ralph Victor — Springfield, Mo. — S. Biol. gr. — 667 Hamilton-p
A.B., Stanford, 1924

Elmer, Walter Edgar — San Jose — Educ. gr. — 629 Elm, SJ-sj
B.L., Wisconsin, 1900; A.M., Stanford, 1924

Elms, Myron Kenneth — Los Angeles — Econ. 135+45 — 525 Encina

[234]Elvey, Donald Mitchell — San Jose — Engl. 85–6 — 1497E.SanF'rndo, SJ

Ely, Northcutt — Phoenix, Ariz. — Law 185+122 — Sigma Nu-*1050*
A.B., Stanford, 1924

[12]Emerson, Kenmore L. — Brattleboro, Vt. — Econ.79·57+17 — BetaThetaPi-*1335*

[4]Emmons, Robert Edmund — Tucson, Ariz. — LD 7–8 — 656 Bryant-p

Empey, Lucas Wistar — San Jose — Pre-Clin.86·100+75 — 35Devine,SJ-sj
A.B., Stanford, 1924

Enderud, Alice Oline — Portland, Ore. — LD 46+84 — 211 Roble

Enderud, William Louis — Portland, Ore. — LD 91+45 — 50 Sequoia

Engelcke, Hans Paul — Cupertino — LD 96+84 — Cupertino-c

English, Harlow DeWolfe, Jr. — Lindsay — M.E. 137+72 — 30 Sequoia-*892*

Engstrum, Frederick E., Jr. — Los Angeles — LD 46+57 — 46 Encina

Enos, Lawrence Marcel — San Luis Obispo — Law 22·161+112 — 63 Sequoia-*616*
A.B., Stanford, 1924

Enright, James Robert A.B., Stanford, 1923	Santa Cruz	Med. gr.	Phi Sigma Kappa-*538*
[1]Eremievsky, Serge A. A.B., Stanford, 1922	Petrograd,Russia	Engl. gr.	105 Emerson
Errickson, Vance Bryant A.B., Stanford, 1924	Kalispell,Mont.	Chem. 185+65	216 Toyon-*801*
Erskine, Helen Margaret	Hollywood	LD 10·78+145	Delt.Delt.Delt.-*1325*
Erwin, Joseph Emmons	Kinsley, Kans.	Econ. 90·47+6	107 Branner
Eshleman, Wallace C.	Charles City, Ia.	LD 78+32	241 Branner-*554*
Espinosa, Aurelio M., Jr.	Stanford Univ.	LD 46+68	16 Salvatierra-*935*
Espy, William Compton	Palo Alto	LD 100+53	1052 High-p
Estabrook, Winifred Frances A.B., Stanford, 1924	Los Gatos	Educ. 90·91+134	208 Roble-*998*
[4]Estill, Howard Wilmot M.S., Arizona, 1916	Tucson, Ariz.	Chem. gr.	Sigma Alpha Eps.-*1305*
Eubanks, Barbara Ann	Palo Alto	LD 49+78	367 Roble
Eva, James Meredith	San Francisco	LD 111+17	Phi Sigma Kappa-*538*
Evans, Charles Orrick	Riverside	Law 104+90	246 Toyon-*633*
Evans,David LeCountWalpole	Palo Alto	LD 41+0	555 Waverley-p
Evans, Kathleen	Riverside	Hist. 21·156+104	PiBetaPhi-*1332*
[4]Evans, Lucy Maud	Palo Alto	LD ‡	527 Hamilton-p
[4]Evans, Warren Raymond	Shelby, Mont.	LD	360 Bryant-p
Evans, Wesley DeLa	Salinas	LD 43–4	334 Encina
[4]Everett, Garnet Alberta A.B., Kirksville State Teachers' College, 1923	Spokane, Wn.	Educ. gr.	229 Roble
Evers, Wendell H.G.	Biggs	Educ. 124+22	24 Sequoia-*1280*
Ewell, Catharine D. A.B., Stanford, 1924	Canon City, Colo.	Math. 7·179+218	281 Roble-*1116*
Ewert, William Van Velsor	Long Beach	Hist. 106+68	306 Toyon-*554*
Fagg, Charles Edward	Riverside	LD 94–3	248 Toyon-*1154*
Fain, William Hart	Auburn	LD 96+52	246 Toyon
[1]Fairchild, Nellie Irene A.B., Stanford, 1924	Kearney, Neb.	Fr. 180+114	100 Roble
Fairchild, Paul Lee	Santa Cruz	LD 90+33	Alpha Delta Phi-*J*
[4]Falkner, Helen Spaulding	Berkeley	Engl. ‡	Cowper Court-p
[12]Fall, David A.	Portland, Ore.	LD ‡ 25+0	Sigma Chi
Fang, Roland Chung	Shanghai, China	Engl. 90·43+8	Chinese Club-*1136*
Farish,Edward Tilghman A.B., Stanford, 1924	NewYork,N.Y.	Min. 180+76	51 Sequoia-*977*
[1]Farish, Linn Markley	Woodland	Geol. 159+31	Kappa Sigma
Farley, Raymond Mervy	San Francisco	Law 166+15	300 Branner-*605*
Farmin, Rollin	Sandpoint, Ida.	Geol. 92·54+13	427 Encina
Farr, Hannon Barker	San Francisco	LD 44–10	228 Encina

Farr, Marian — Piedmont — LD 46+13 — 228 Roble
Farr, Walter Harold — Campbell — Pre-Clin. 135·51+33 — 11 Sequoia
A.B., Stanford, 1924
Farwell, Felix Howes — Los Angeles — LD ‡ 39+0 — 304 Encina-*1137*
[234]Fassoth, Paul Decker — Palo Alto — LD 36–9 — Chi Psi-*588*
[12]Faustino, Leopoldo Alcaraz — Manila, P.I. — Geol. gr. — 543 Byron-p
B.E., Ohio, 1917; A.M., Stanford, 1922, Ph.D., 1924
[1]Faville, Richard Wm. — Portland, Ore. — M.E. 199+28 — Beta Theta Pi
A.B., Stanford, 1924
Fay, Kenyon Tudor — Los Angeles — Econ. 51·82+17 — 323 Union-*723*
[12]Fay, Sheldon Paige — Los Angeles — LD 76+50 — 125 Branner
[23]Fearing, Flora May — Palo Alto — Pol. S. gr. — 177 Tasso-p
A.B., Stanford, 1917, A.M., 1918
Fearing, Franklin Smith — Palo Alto — Psych. gr. — 177 Tasso-p
A.B., Stanford, 1923, A.M., 1924
Fee, Doris Parker — Los Altos — LD 48+47 — Los Altos-la
[1]Feelhaver, Carl Theodore — Hampton, Neb. — Law ‡ 8–13 — 533 Middlefield-p
Feliz, Frank Everett — Santa Rosa — LD 39+5 — 403 Encina
Fenn, John Frank — Helena, Mont. — LD 43+48 — 112 Encina
[34]Fennemore, Richard M. — Phoenix, Ariz. — LD 73+2 — Kappa Alpha
[234]Fenner, Wilma Eda — Palo Alto — LD 29+35 — 1010 Forest Court-p
Fenton, Frank L. — Santa Rosa — Engl. gr. — 563 Encina-*1112*
A.B., Stanford, 1923
Fenwick, Barbara Keese — San Francisco — LD 45+14 — 234 Roble
Ferguson, Kenneth L. — Palo Alto — Law 123+52 — AlphaSigmaPhi-*1357*
[4]Ferguson, Nita — Independence, Kans. — Hist. gr. — 326 Roble
A.B., Kansas State Teachers' College, 1919
Ferrando, Aldo — Butte, Mont. — LD 42·91+19 — 35 Sequoia
Ferrante, Anthony A. — San Francisco — Pre-Med. 90·47+50 — 509 Encina
Ferranti, Peter Joseph — Monterey — LD 43+16 — 129 Encina
Ferry, Mabel Farwell — San Diego — Sch. Ed. gr. — 19 Salvatierra-*614*
A.B., Stanford, 1923
Feusier, Cecile Marie — San Francisco — LD 96+63 — Pi Beta Phi-*1332*
[5]Fewel, Alan J. — Los Angeles — Law 80·107+28 — 10 Union-*653*
[2]Fewel, Richard William — Los Angeles — Law 31–21 — 10 Union
Field, John, II. — Palo Alto — Chem. gr. — 520 Tennyson-p
A.B., Stanford, 1922, A.M., 1924
Finch, Vincent Wellington — Oil Center — Min. 90·43+24 — 138 Toyon
Findley, Frank Miller — Palo Alto — Entom. 6·136+30 — Zeta Psi-*B*
[1]Finneran, Leo Francis — Ashland, Ore. — LD 34–30 — Stanford
Fischer, Elizabeth V. — New Orleans, La. — Engl. gr. — Madroño
A.B., Tulane, 1919; A.M., Stanford, 1924

Fishburn, John Eugene, Jr.	Los Angeles	Econ. 9-171+171	DeltaKappaEps.
A.B., Stanford, 1924			
[4]Fitch, Helen M.H.	Mayfield	Educ. gr.	141 Amherst, M-m
A.B., Southern California, 1909			
[4]Fitzgerald, John Joseph	Richmond	Pre-Med. ‡	229 Union
[5]Fitzgerald, Robert B.	Palo Alto	Engl. gr.	127 Middlefield-p
A.B., Arizona, 1923			
Fitzhugh, Anna Thornton	Los Angeles	Engl.133+7	AlphaOmicronPi-*1367*
Fitzhugh, Wm. McP., Jr.	San Francisco	LD sp. 76+0	247 Branner
[12]Flagler, Paul	Hollywood	LD 75+2	125 Branner
[5]Flanagan, James A.	Kenton, Ohio	Law gr.	14 Union
A.B., Miami, 1921			
Fleischman, Charles C.	San Francisco	Law 183+136	231 Branner-*865*
A.B., Stanford, 1924			
[4]Fleishhacker, Eleanor	Woodside	Econ. ‡	Redwood City-rc
[4]Fleming, Louise K.	San Jose	Engl. gr.	311 Washington, SJ-sj
A.B., Stanford, 1906, A.M., 1907			
[12]Fleming, Robert Carlile	Lincoln	Hist. 174+7	Theta Chi-*1383*
Flesher, Beatrice Elise	Denver, Colo.	LD 107+64	302 Roble-*667*
Fletcher, Charles Gross	San Diego	Pol.S.185+39	PhiDeltaTheta-*1334*
A.B., Stanford, 1924			
[23]Fletcher,Lawrence Salmons	San Diego	LD 25+0	424 Encina
Flood, Raymond Oliver	San Francisco	M.E. 172+79	PhiDeltaTheta-*1334*
[5]Florcken, Herbert Gerdts	Palo Alto	Econ. gr.	168 Bryant-p
A.B., Stanford, 1924			
Flowers, Esther May	Pasadena	Ed.G.A.184+27	Kap.Al.Thet.-*1336*
A.B., Stanford, 1924			
[2]Fogg, Philip Shearer	Palo Alto	Econ. 124+174	1404 Bryant-p
[4]Foley, Mary	Menlo Park	Cl. Lit. gr.	Menlo Park-mp
A.B., College of the Sacred Heart, 1922			
[23]Follansbee, George S., Jr.	Los Angeles	LD 121+101	Theta Xi-*1355*
Follis, Donald Charles	Palo Alto	M.E. 9-171+75	712 Bryant-p
A.B., Stanford, 1924			
[4]Fontaine, George Kingdon	San Jose	LD ‡	118 Toyon-*981*
[4]de Font-Reaulx, Henri	Mexico	LD	
Forch, Dorothy Lucile	Long Beach	Engl.-Jn. 90-85+10	259 Roble
Ford, Evert Henry	Modesto	M.E. 90-47+25	48 Sequoia
Ford, Harriet Allena	Los Angeles	LD 61+38	Kap.Kap.Gam.-*1354*
Forderer,Eleanor Kingsbury	Burlingame	LD 45-47+29	221 Roble
[12]Forker, Floyd Wilson	Los Angeles	LD 66–16	206 Branner
Forrest, Edwin Llewellyn	San Francisco	LD 46–9	Beta Theta Pi
Forster, Albert E.	Stanford Univ.	Min. gr.	2 Union-*1355*
A.B., Stanford, 1923			

[13]Forster, Donald Francis — Watsonville — Pre-Med.13·121+6 — 526 Encina-*972*
Forsyth,GeorgeThomas.,Jr. — Portland,Ore. — LD 130+2 — 219 Toyon-*545*
Fort, Lois — Los Angeles — Phil. 137+94 — 107 Roble
Fortine, Dwight Hugh — Long Beach — LD 97+58 — 81 Sequoia
[12]Foster, Frances — Stanford Univ. — Phyl. 35·86+23 — 22 Lasuen
[23]Foster, Frances Belden — Hollywood — LD 43–9 — Delta Gamma
[1]Foster, Robert Aram — Fresno — Econ. 57+19 — 419 Encina
Foster, Walter Blair — San Francisco — Econ. 180+27 — Zeta Psi-*B*
A.B., Stanford, 1924
[4]Fouts, Wesley Ross — St. Charles, Ia. — Educ. gr. — Mayfield-m
A.B., Simpson, 1915
[4]Fox, Clement S. — Kingman, Ariz. — Educ. gr. — 330 Union
A.B., Minnesota, 1916
[4]Fox, Irene Henrietta — Keota, Colo. — LD — 445 Hamilton-p
Fox, Lois Ione — Palo Alto — LD 93+109 — 1101 Waverley-p
Foye, Charles Edward — San Francisco — Law 142+173 — Sigma Nu-*1385*
Francis, Cyril Herbrand — Los Angeles — LD 43+33 — 324 Encina-*1294*
[12]Frank, Eddie — Burlingame — LD 70+7 — 207 Branner-*1140*
[234]Franklin, Charles Scott — Stanford Univ. — Geol. 165+35 — San Juan-*O*
Franklin, Geraldine — Carpinteria — Hist.17·164+44 — DeltaGamma-*1336*
A.B., Stanford, 1924
[4]Franklin, Harvey B. — San Jose — Educ. gr. — 251 Singleton, SJ-sj
Ph.B., Chicago, 1911
Franklin, John Curtis — Stanford Univ. — LD 95+129 — PhiDeltaTheta-*1334*
Franklin, Josephine — Carpinteria — Hist.17·164+62 — DeltaGamma-*1336*
A.B., Stanford, 1924
Franklin, Lloyd J. — San Bernardino — M.E. gr. — Theta Chi-*1383*
A.B., Stanford, 1923, Engineer, 1924
Fraser, Robert McKibben — St. Helena — LD 48+55 — 18 Encina
[5]Frasse, Irvin Arqués — San Jose — Law 91+57 — Alpha Sigma Phi
Frazier, Alfred Egelmann — Berkeley — LD 43+47 — 109 Encina-*1016*
[1]Frazier, Clarence Mackay — San Francisco — LD 52–14 — Phi Kappa Psi
Frazier, George Martin — Eagle Rock — LD 92+62 — Delta Chi-*1304*
[5]Fredericks, John D., Jr. — Los Angeles — Law 18·191+27 — Laurel and Oak-p
[13]Fredrick, Florence Thompson — Ojai — Hist. 127·53+30 — 220 Roble
A.B., Stanford, 1924
Freedman, Cecil Louis — Vancouver, Wn. — LD 48+66 — 43 Encina
Freeman, F. Fontaine — Oklahoma City,Ok. — LD 40·66–32 — Alpha Sigma Phi
Freeman, Marcus Philip — Alameda — LD 44+18 — 39 Encina
[5]Freidenrich, David, Jr. — Alameda — LD 90+29 — 205 Branner
[1]French, David Dye — Pasadena — Law ‡ 47–21 — 240 Embarcadero
[12]French, Florence Elizabeth — Los Angeles — Chem. 19·91+125 — 318 Roble-*1281*
French, Herbert Hutton — Oakland — LD45·50–5 — AlphaTauOmega-*1384*

[3]French, William O., Jr.	Oakland	Med. gr.	1518 4th ave., Oakland-o
A.B., California, 1920; A.M., Stanford, 1923			
Friebel, Helen Mae	Whittier	LD 9·113+32	212 Roble-*637*
Friedlander, Richard	San Francisco	LD 9·94+87	218 Branner-*1019*
Frink, Frederick William	Palo Alto	LD 141+165	250 Branner
Frink, Marjorie Mae	Palo Alto	Econ. 90·78+89	943 Bryant-p
Fritschen, H. William	San Francisco	Med. gr.	3544 Mission, SF-sf
A.B., Stanford, 1921			
Fritts, Don E.	Santa Ana	LD 44+22	127 Encina-*1255*
[4]Fromberg, Carolyn F.	San Francisco	Law gr.	170 Roble
A.B., Mills, 1923, A.M., 1924			
[4]Fry, Marietta	Palo Alto	LD	Cowper Court-p
Fry, Orvin Philip	Benicia	LD 88+25	106 Branner
Frye, Frank Augustus, Jr.	San Diego	LD 94+67	Phi Kappa Sigma
Fuendeling, Mervin J.	San Francisco	Chem.-Med. 87·95+37	72 Sequoia
A.B., Stanford, 1924			
Fujinaga, Ernest Sota	Hakalau, Hawaii	Cl. Lit. 127+158	637 Emerson-p
Fukushima, Thomas N.	SaltLakeCity,U.	LD 49+19	Japanese Club-*598*
Fulcher, Charles Nelson	San Francisco	LD 49+27	348 Encina
Fuller, Charles Atwood	Detroit, Mich.	LD 77·42–8	135 Branner
Fuller, Dana Lloyd	San Francisco	Econ.110+31	Delt.Kap.Epsilon-*O*
[5]Fuller, Frank Watsie, Jr.	San Francisco	Law 4·172+76	Delta Kappa Eps.
[124]Fuller, Helen Baker	Fresno	Span. 52·65+17	Chi Omega
Fuller, Lon Luvois	El Centro	Law 53·128+202	Delta Chi-*1304*
A.B., Stanford, 1924			
Fuller, Roy Richardson	Detroit, Mich.	Econ. 94·45+41	135 Branner
Fullerton,Dick Phelps,Jr.	San Francisco	LD 178+137	Beta Theta Pi-*1335*
Fulmor, Theodore Grant	Anaconda,Mont.	LD 23·48+36	136 Encina
Fulton, Ruth Vivia	Vancouver, B.C.	Chem. gr.	211 Melville-p
M.A., British Columbia, 1919			
Gage, Daniel Dudley, Jr.	Los Angeles	Law 196+184	118 Toyon-*1233*
A.B., Stanford, 1924			
Gage, William Richard	Stanford Univ.	Pol. S. 189+25	118 Toyon-*1233*
A.B., Stanford, 1924			
[1]Gallagher, Florence Rowe	Ely, Nev.	LD 42·15+22	361 Roble
[12]Gallery, Fred Julius	Reno, Nev.	LD 31–22	352 Encina
Gambell, Charles Francis	Willows	Econ.45·83+56	ThetaDel.Chi-*1331*
[13]Gammon, Cyril T.	Hood	LD 91–4	Sig.AlphaEpsilon-*1305*
Gandy, Robert Arvon	Riverside	LD 52–2	326 Encina-*523*
Gardiner, Laura Isabella	Riverside	LD 45+50	222 Roble
Gardner, Edwin Lee	Ventura	LD 30–20	115 Encina
Gardner, Kenneth Drake	Oakland	Med. gr.	929 Haight, SF-sf
A.B., Stanford, 1923			

Garland, Ruth A.B., Stanford, 1920	Ojai	Med. gr.	2211 Calif., SF-sf
[4]Garrett, Lula May A.B., California, 1922	Cedarville	Hist. gr.	630 Bryant
[23]Garrison, Lemual Alonzo	Ogden, U.	LD 29·29+21	Lasuen
[4]Garrison, Margaret Frances	Ogden, U.	LD ‡	170 Roble
Garten, Ruth Muriel A.B., Stanford, 1923	Long Beach	Med. gr.	2404 Clay, SF-sf
Garth, William LeRoy A.B., Stanford, 1922	Beaumont, Tex.	Med. gr.	831 Bryant-p
[5]Garthwaite, John Gilbert	Berkeley	LD 41+*2*	333 Encina
[5]Gaspar, Louis A.R.	Honolulu, T.H.	LD 91+101	*252 Toyon-1108*
Gast, John M.	Los Angeles	Ent. 90·20+3	Sigma Nu
[5]Gast, K. Marie B.S., Purdue, 1922	Akron, Ind.	Engl. gr.	501 Cowper-p
[4]Gault, Francis Noble B.S., Ohio Wesleyan, 1904	Gilbert, Ariz.	Sch. Ed. gr.	Madroño
[4]Gault, Viva Glen A.B., Colorado, 1906	Gilbert, Ariz.	Sch. Ed. gr.	Madroño
Gaw, Harold Percival	San Jose	LD 40+20	39 Encina
[2]Gay, Milus Osgood	Philadelphia, Pa.	LD 78·36+8	430 Encina
[1]Geary, Charles William	Pittsburgh, Pa.	LD 5–2	31 Encina
Geib, Lewis Charles	Highland	LD 41+30	416 Encina
Geisler, Robert Henry	Sunnyvale	LD 47+6	Sunnyvale-s
[5]Gemmell, Margaret E.	Los Angeles	Engl. ‡ 14+16	215 Roble
Genereaux, Raymond Paul	New York, N.Y.	Chem. 9·156–18	Phi Kappa Psi-*1333*
Gentry, Harold Goodman A.B., Stanford, 1923	Redlands	Med. gr.	2215 Buchanan, SF-sf
[4]George, Dorothy Thomas	Lewiston, Ill.	LD ‡	1832 Cowper-p
George, George Rodney	San Francisco	LD 45–14	*231 Encina-1192*
[1]Gerhardt, Peter Weston	San Francisco	LD 17–17	5 Sequoia
Gerstle, Mark Lewis, Jr. A.B., Stanford, 1924	San Francisco	Med. 125·55+2	2350 Wsh'gt'n, SF-sf
Gertmenian, Harold A.	S. Pasadena	Econ. 19·114+85	*235 Toyon-655*
[1]Geyer, Harold Clinton A.B., Stanford, 1924	Burley, Ida.	Econ. 72·108+38	543 Encina
Gibbons, Henry	San Francisco	LD 45+38	308 Encina
Gibbons, Lewis Alberto	Los Angeles	Law 47.91+43	Sig. Alpha Eps.-*1305*
[1]Gibbons, Margaret Virginia A.B., Stanford, 1924	Los Angeles	Eng.-Jn. 89·100+142	Sigma Kappa
[234]Gibbons, Morton R., Jr.	San Francisco	Pre-Med. 128+29	Sig. Al. Eps.-*1305*
[1]Gibson, Gwynnyth Ritchey A.B., Southern California, 1922	Palo Alto	Engl. gr.	1831 Waverley-p

[2]Gibson, Russell Graves — Seattle, Wn. — Econ. 95·87+6 — Zeta Psi
A.B., Stanford, 1924

[1]Gibson, William Earl — Palo Alto — C.E. 77–18 — 1831 Waverley-p

[12]Gifford, C. Dickenson — Stanford Univ. — Geol. gr. — Sig.AlphaEpsilon-*1305*
A.B., Stanford, 1923, A.M., 1924

[4]Gilbert, Harry H. — Los Angeles — Educ. gr. — 304 Union
A.B., McPherson, 1920; M.S., Southern California, 1922

[5]Gilbert, Walter Eugene — Los Angeles — Law 81·38+16 — Kingscote-*672*

[12]Gilchriste, Frank Cooper — San Mateo — Econ. 180+18 — PhiKap.Sigma-*1306*
A.B., Stanford, 1924

Gill, Burgo Doyle — Jacksonville, Fla. — Min. gr. — Box 606, p
B.S., Florida, 1921

[34]Gill, Joseph Francis — Indianapolis, Ind. — LD sp. 11+11 — Base Hospital-p

[5]Gill, Roland Jerome — Spokane, Wn. — Econ. sp. 147–2 — Alpha Delta Phi

Gillen, James Simon — Sheboygan,Wis. — Econ. 50·133+36 — Al.Sig.Phi-*1357*
A.B., Stanford, 1924

[2]Gillette, Landa Van A. — Grants Pass,Ore. — LD 56–17 — 25 Salvatierra

[4]Gilman, Maud Ruth — San Jose — Educ. gr. — R. 2, Box 212A, SJ-sj
A.B., College of the Pacific, 1916

Gilpin, Dorothy Helen — Hanford — LD 56+37 — 148 Roble-*557*

[4]Gish, John Darwin — Redwood City — Sch. Ed. gr. — Woodside-Box 167,rc
B.L., California, 1896

[5]Givan, Charles Vernon — Sacramento — LD 7·139+175 — 121 Toyon

Gladding, Helen Adeline — Lincoln — Span. 98+7 — AlphaOmicronPi-*1367*

[134]Gladstone, Jacob Bernard — Palo Alto — LD sp. 15·101+12 — Menlo Park-mp

§[1]Glauber, Earl Isaac — Los Angeles — LD 9·97+59 — Roble Rd., MP-mp

Gleason, Elizabeth Morris — Pasadena — Econ. 95·40+8 — 200 Kingsley-p

Glen, William A. — Rock Springs,Wyo. — LD 45+8 — 426 Encina

Glenn, P. Eugene — Bakersfield — Law 77·130+79 — 135 Toyon-*1083*
LL.B., Stanford, 1924

[4]Glenn, Ray F. — University Place, Neb. — Educ. gr. — 323 Union
A.B., Nebraska, 1920

Glidden,Eleanor Daniel — Watertown,Mass. — Engl. gr. — Madroño-*1003*
A.B., Wheaton, 1923; A.M., Stanford, 1924

[1]Godfrey, Harry Allen — Visalia — LD 49+5 — 425 Encina

Goepfert, Ayleen E. — Watertown, S.D. — Hist. gr. — Madroño
A.B., South Dakota, 1914; A.M., Stanford, 1924

[4]Golden, John Richard — San Francisco — LD — 257 Toyon

Goldman, Robert Louis — San Francisco — Econ. 180+159 — 212 Branner
A.B., Stanford, 1924

Goldwater, Richard Michel — Los Angeles — LD 90+98 — 112 Toyon-*1124*

§ Deceased January 25, 1924

Gomes, Joseph Vincent — Campbell — Law gr. — 224 Toyon
A.B., Stanford, 1922, J.D., 1924

Gooden, Carolyn Frances — Los Angeles — LD 49+98 — 271 Roble

Goodenough, Florence — Perth Amboy, N.J. — Psych. gr. — Kingscote-*949*
A.M., Columbia, 1921

[4]Goodrie, Miranda — Grafton, N.D. — LD 16+10 — 263 Roble

Goodwin, Albert — Gilroy — LD 44+55 — 41 Encina

Googin, Thomas Max — San Rafael — LD 44+26 — 120 Encina

[4]Gordon, George Louis — Boulder Creek — Educ. 93·25+24 — 241 Toyon

[234]Gordon, Leslie Oral — Anaheim — LD 64+0 — 307 Branner

Gordon, Morris — San Francisco — LD 90·47+54 — 561 Encina

Gorham, Curtis Byron — San Diego — Med. gr. — 27 Encina ave.-p
A.B., Stanford, 1924

[12]Gorrell, Leslie Ewing — San Jose — Min. 181+74 — Sig.AlphaEps.-*1305*
A.B., Stanford, 1924

[5]Gosslin, William Leslie — Portland, Ore. — Law 96+162 — 234 Branner-*1005*

[1]Gottenberg, Mabel Fern — San Jose — Chem. gr. — 65 Asbury, SJ-sj
B.S., California, 1913

Gottschalk, William, Jr. — Venice — LD 90+65 — 208 Branner-*1100*

[4]Gove, Richard Leonidas — Berkeley — Law gr. — 317 Union
A.B., California, 1922

[12]Gowell, Francis Winchester — Palo Alto — LD 71–16 — 538 Cowper-p

Gower, Marian Ruth — Santa Barbara — Hist. 45·138+166 — D.D.Delta-*1325*
A.B., Stanford, 1924

[4]Grable, Goss Silas — San Jose — Hist. gr. — 330 No. 5th, SJ-sj
A.B., Stanford, 1922, A.M., 1923

Grace, Thomas Joseph — Santa Rosa — Econ.140+103 — PhiGam.Delta-*1324*

[5]Grady, Ainslee S. — Fargo, N.D. — Hist. 123·48+55 — 336 Guinda-p

[4]Graham, Agnes Emma — Eugene, Ore. — Sch. Ed. gr. — Roble
A.B., Kansas, 1905, A.M., 1907

[4]Graham, Alden Gerard — Portland, Ore. — Law 24·33+15 — Zeta Psi-*B*

Graham, Kenneth Campbell — Pasadena — LD 46+4 — 336 Encina-*958*

Graham, Lloyd E. — Stanford Univ. — Phys. 72·118+110 — 533 Encina-*663*
A.B., Stanford, 1924

Granger, Neil P. — Orange — Econ. 185+91 — Beta Theta Pi-*1335*
A.B., Stanford, 1924

[5]Grant, James A. Clifford — Los Angeles — Pol. S. 109·58+83 — 318 Lincoln-p

[1]Graves, Alden Matthew — San Francisco — LD 23–15 — 447 Encina

[124]Graves, Arthur Joseph — Palo Alto — Hist. gr. — 660 Waverley-p
A.B., Toledo, 1921

Graves, David Dunbar — Hollywood — LD 59+14 — Delta Kappa Epsilon

[1]Graves, D. Wedgwood — Ogden, U. — Phil. 13·150+141 — Phi Kappa Psi

[23]Graves, Jack Hiram — Willows — LD 43–3 — Theta Delta Chi-*1331*

Graves, John Dunbar	Hollywood	Econ. 167+94	Alpha Tau Omega
[12]Graves, Virginia Rousseau	Hollywood	Engl. 120·31+25	303 Roble-*1336*
[5]Gray, Earl Haskins	Petaluma	LD 120+40	116 Toyon
[4]Gray, Lois A.B., Oregon, 1916	Eugene, Ore.	Engl. gr.	336 Roble
Gray, Robert Floyd A.B., California, 1917, A.M., 1920	Palo Alto	Educ. gr.	1048 Webster-p
Green, Bert Marion	Fresno	LD 90+34	Theta Chi-1383
[1]Green, Copeland A.B., Stanford, 1924	Long Beach	M.E. 42·152+128	540 Encina
Green, George Garner	Los Gatos	LD 43–3	325 Encina
Green, George Leroy A.B., Oklahoma, 1917	Elmwood, Okla.	Min. gr.	318 Union-*1142*
Greenacre,EstherFlorence	Greeley,Colo.	LD 8·93+80	D.DeltaDelta-*1325*
[4]Greenan, John Clement A.B., Oxford, 1914	Redwood City	Sch. Ed. gr.	659 El C. Real,RC-rc
Greene, Earnest Sylvan	Campbell	LD 85+98	Campbell-c
[1]Greene, Harold Hartley	Columbia, Mo.	Geol. 100·28+13	56 Sequoia-*1176*
Greene, Harry Ashland, Jr. A.B., Stanford, 1924	Monterey	M.E. 10.189+238	43 Sequoia
[5]Greene, Helen Hartley A.B., Stanford, 1923	Columbia, Mo.	S. Biol. gr.	Kap.AlphaTheta-*1336*
Greene, Philip Burkland	Spokane, Wn.	LD 42+40	19 Encina
[12]Greene, Raymond G.	Billings,Mont.	Geol. ‡ 38–25	Zeta Psi-*B*
[4]Greene, Rebecca T. B.S., Wellesley, 1885	Palo Alto	Educ. gr.	721 Webster-p
Greene, Robert L.	Santa Ana	Econ. 90·44+16	1102 Ramona-p
[12]Greene, Thomas G., Jr. A.B., Stanford, 1924	Portland,Ore.	Law gr.	210 Branner
[124]Greenleaf, Sidney Nelson B.S., Washington, 1920	Seattle, Wn.	Law gr.	321 Union
[5]Gregersen, Magnus Ingstrup A.B., Stanford, 1924	Solvang	Bot.gr.	525 Forest-p
[12]Gregory, John Munford	San Francisco	LD 65–19	Beta Theta Pi-*1335*
Greiner,Francis La Sha	PortAngeles,Wn.	Econ. 111+25	524 Encina
Greisser, Arthur H.	Spokane, Wn.	LD 46+12	52 Sequoia-*1008*
Greisser, Victor P.	Spokane, Wn.	LD 46+20	52 Sequoia-*1008*
[3]Greninger, Alden B.	Walker Mine	LD 15+0	204 Encina
[4]Greulich,William Walter	Columbus, O.	LD ‡	258 Toyon-*504*
Gridley, Helen Butler	Auburn	Math. 100·45+17	305 Roble-*1158*
van de Griendt, Gerald H.	Los Gatos	Chem. 156+93	761 Bryant-*1293*
[12]Griffin, Carroll Brent	Granville, O.	M.E. 85·142+1	323 Union

[4]Griffin, Christopher John A.B., Stanford, 1922	Fox Lake, Wis.	Law gr.	139-Toyon-p
[5]Griffin, Frank Joseph A.B., Stanford, 1924	Redwood City	Educ. gr.	400 Broadway, RC-rc
Griffith, S. Carleton	Kittanning, Pa.	Math. 87·52+35	21 Sequoia
[4]Griffiths, Mary Eleanor	Napa	LD ‡	200 Roble
[23]Grigg, Richard Wyman	Los Angeles	LD 29+16	233 Encina
[5]Grill, Margaret Eleanor	Los Angeles	Econ. 30·101+54	Roble
Grinstead, Marion Owen A.B., Stanford, 1923	Palo Alto	Med. gr.	2215 Buchanan, SF-sf
Griswold, Gale Charles	Modesto	Chem. 157+260	217 Toyon-*938*
[5]Griswold, George G.	Milwaukee, Wis.	LD ‡ 43–7	239 Toyon
[23]Grondona, Charles Arata A.B., Stanford, 1923, Engineer, 1924	San Francisco	Chem. gr.	Delta Tau Delta-*1363*
Gross, J. Kathryn	Salinas	LD 90+85	Gamma Phi Beta-*1337*
[4]Grossmann, Carolyn Clapp	SantaBarbara	LD	334 Roble
[4]Grover, Mabelle Chace	Santa Cruz	LD 18+4	Sigma Kappa
Grunland, Dean Paul	Portland, Ore.	LD 41+50	111 Encina
Grutzmacher, Robert Lee	Hollywood	LD 34+7	351 Encina
Guerra, Carlos E. Perez	MexicoCity, Mex.	Chem. 135+0	741PAav., M-B.*722*,p
[1]Gunnerson, Wm. Fulton	Riverside	LD 15+4	*27* Encina
Gunther, Chester Oliver	Portland, Ore.	Econ. 160+16	Beta Theta Pi-*1335*
Gyde, James Ellsworth, Jr.	Wallace, Ida.	Law 91·42+1	423 Encina-*954*
Habegger, James Arnold	Oakland	LD 44+21	*228* Encina
Hablutzel, Charles Edward	San Jose	Chem. 7·126+128	312 Toyon
Hachez, Pierre Ingénieur Civil des Mines, Louvain, 1923	Brussels, Belgium	Min. gr.	325 Union-*959*
Hack, Dorothy Eleanor	Pasadena	LD 46·45+43	*323* Roble-*511*
[2]Hackett, Russell Graham A.B., Stanford, 1924	Spokane, Wn.	C.E. 27·156+25	Union
Haden, Mertz	Los Angeles	LD 41+18	108 Encina-*1081*
Hadley, George Charles	San Francisco	Law 7·119+19	Al.T.Omega-*1384*
[23]Hagbom, Nelden Andolf	San Francisco	LD 32+43	*42* Encina
[4]Hahn, Albert Payer	San Francisco	LD	*213* Toyon
Hahn, Young D. A.B., Stanford, 1923	Delano	Med. gr.	1053 Oak, SF-sf
[1]Hake, Benjamin Franklin A.B., Stanford, 1920	Palo Alto	Min. gr.	135 Embarcadero-p
Halbert, Elizabeth Ann A.B., Stanford, 1924	Long Beach	Psych. 48·150+33	171 Roble-*547*
Hale, Marshal, Jr.	San Francisco	Law 166+16	Sigma Nu-*1385*
[5]Haley, Cecil Irving	San Jose	Econ. 148+38	ThetaDeltaChi-*1331*
Haley, Kenneth Wendell	Bakersfield	LD 92+77	*226* Toyon-*554*

Hall, Cyril Benjamin	Nevada City	LD 33–6	21 Encina
[1]Hall, Elizabeth Pierson	Los Altos	LD 81+14	Sigma Kappa
Hall, Ernest Mosiah	San Francisco	Med. gr.	2620 Sacramento, SF-sf
A.B., Brigham Young, 1905; M.S., Washington State College, 1916			
[23]Hall, Giles Stark	Los Angeles	LD 87–14	Alpha Delta Phi-*J*
Hall, John	Los Angeles	Law 131+47	124 Toyon-*554*
Hall, Mildred Jessica	San Francisco	Chem. gr.	Manzanita-*1099*
A.B., Stanford, 1923, A.M., 1924			
Hall, Mildred S.	Bishop	Econ. 45·95+85	350 Roble-*1099*
Hall, Victor Ernest	Palo Alto	Phyl. gr.	*327* Lytton-p
A.B., Stanford, 1922			
[1]Hall, William Louis	Palo Alto	LD 53–21	304 Waverley-p
Halverson, Cutler W.	Oakley, Ida.	Law49·92+56	PhiSigmaKappa-*538*
Hamilton, John Edwin	Oakland	LD 48–6	43 Encina
[12]Hamilton, Kenneth Howard	Wesley	LD 139+29	133 Toyon
[12]Hamlin, Harris Howard	Los Angeles	Chem. gr.	SigmaAlphaEps.-*1305*
A.B., Stanford, 1922			
Hammer, Otto	Los Angeles	M.E. 95–1	Kappa Alpha-*1356*
Hammond, Elmer Halbert	Palo Alto	LD 22·106+163	635 Homer-p
Hammond, Wilbert John	San Diego	Econ.74·79+21	Thet.Delt.Chi-*1331*
[4]Hanak, Norman William	San Francisco	LD	*222* Toyon
Hancock, Joseph Rainey	San Jose	LD 45+23	126 Encina
[4]Handshy, Arden Barnes	Watsonville	Educ. gr.	1105 Central-p
A.B., Stanford, 1905			
Hanley, James Leonard	San Francisco	LD 35–2	*227* Encina
[4]Hanna, Helen E.	Plainfield, Ind.	Educ. gr.	238 Roble
A.B., De Pauw, 1918			
Hansell, Elvan Amos	Eureka	Econ. 137+132	507 Encina-*1200*
Hansen, Carl Joseph	Morgan Hill	LD 46+16	137 Encina
[4]Hansen, Natalie	Redwood City	LD 12+12	312 Stanbaugh, RC-rc
Hanson, Frederic Dooley	Los Angeles	Min. gr.	258 Toyon-*1235*
A.B., Stanford, 1924			
[23]Hao, Yao Tung	Sianfu, China	Educ. gr.	Chinese-*11*
A.B., California, 1921; A.M., Stanford, 1923			
[4]Harbo, Jeanette	Cambria, Minn.	LD ‡	344 Roble
Harcourt, Irl Roy	Fresno	M.E. 185+103	*27* Encina ave.
A.B., Stanford, 1924			
Harcourt, William Ernest	Millers, Nev.	Law 180+73	50 Sequoia-*1189*
A.B., Stanford, 1924			
[1]Hard, Burton Stedman	Alameda	Law 103+4	Alpha Tau Omega
[23]Hard, Jean Willis, Jr.	Alameda	LD 70–5	Alpha Tau Omega
Harding, Frederic Warner	El Paso, Tex.	LD 88+28	38 Sequoia
[5]Harding, Victor Hunt	Palo Alto	Pol. S. 55·78+96	170 Laurel-p

[23]Hardwicke,Kenneth Charleton Fresno Law 140+11 Al.Kap.Lamb.-*658*
[124]Hardy, Edward Everett Menlo Park LD 46–2 Laurel Court, MP-mp
Hardy, Jack Wagner Los Angeles LD 90+33 Delta Chi-*1304*
Hardy, Millison Cutler San Diego LD 86+115 Kap.Kap.Gamma-*1354*
Harger, Donald K. Los Angeles Chem. 158+197 114 Toyon-*1166*
Hargreaves, L. Odeal San Jose LD 60+84 Sigma Kappa-*1327*
Harker, James Broadbent Los Angeles Chem. 9·177+38 64 Sequoia-*623*
A.B., Stanford, 1924
[12]Harland, Thomas Osborne Coronado LD ‡ 39+10 36 Sequoia-*521*
[23]Harlow,Charles Vendale Long Beach LD 96–*22* 446 Encina-*1*
[12]Harlow, Max B. ThompsonFalls,Mont. LD 86·29–1 46 Encina
Harman, George Samuel San Francisco C.E. 148+17 216 Toyon-*545*
Harmon, Ellis Drew Reno, Nev. Pre-Clin. ‡ 51–2 Ramona Apts.-p
Harmon, F. Carlyle Santa Clara LD 49+70 1065 Harrison, SC-sc
[5]Harper, Josias Meryl Greeley, Colo. S. Biol. gr. 1832 Cowper-p
A.B., Colorado State Teachers' College, 1923
[5]Harrell, Lorimer Benton Merced Law 127+34 Sig.AlphaEps..*1305*
[4]Harrington, Charles Henry Corona Chem. 76+82 Theta Chi-*1383*
Harris, David W. C. Stanford Univ. Hist. 21·174+277 45 Sequoia-*947*
Harris, Leo Alvil Santa Cruz LD 91+65 241 Toyon-*693*
[3]Harris, Milton Hyrum Logan, Utah Econ. gr. 12 Union
A.B., Brigham Young, 1915; A.M., Columbia, 1917
Harris, Philip John Danville Med. gr. 2515 Webster, SF-sf
A.B., Stanford, 1922
Harrison, Fay Los Angeles LD 45+79 229 Roble-*61*
Harrison,Standish Harold Tacoma, Wn. LD 44–4 403 Encina-*M*
[12]Harrison, Walter C. San Francisco LD 41+1 Theta Chi-*1383*
Harroun, Margaret Carlsbad, N.M. Fr. 133+109 Delta Gamma-*1336*
Hart, William Guy Tulare Chem. 135·55+30 407 Waverley-p
A.B., Stanford, 1924
[5]Harter, Doris Irene Woodland Psych. 4·158+136 384 Roble-*1227*
[4]Hartmann, Amasa S. Anderson, Ind. Educ. gr. Palo Alto
A.B., Wabash, 1917
[27]Hartranft, S. Glenn Palo Alto Hist. 111–27 176 Cowper-p
[134]Hartwell, Robert Clark Los Angeles LD 38+6 Kappa Alpha
[34]Hartwell, Sheldon Pearne Los Angeles LD 14+0 430 Encina
[3]Hartzell, Lucie Eloise Los Angeles Econ. 115+*22* Delta Gamma-*1366*
[4]Hartzell, Robert Reiff Red Bluff Educ. gr. 121 Toyon
A.M., Northwestern, 1912
Harvey, Byron S. Lake Forest, Ill. LD 34+7 206 Encina
[12]Harville, Richard Towner Berkeley LD 62–15 Beta Theta Pi-*1335*
Harward, Elbert Jay Boise, Ida. Law 43·89+41 Kappa Sigma-*1326*

Harwood, Mary Frances	Upland	LD 45+54	378 Roble-*968*
Haseltine, Theodore Raymond	Crockett	C.E. 145+188	219 Toyon-*545*
[4]Haskell, Dudley Haines	San Francisco	LD	257 Toyon
[23]Haslett, Beverley Barry	San Francisco	LD 10+0	110 Encina
Hasselbalch, Earl L. B.S., Nebraska, 1923	St. Edward, Neb.	Law gr.	627 Bryant-p
[34]Hastings, Frank LeRoy	Los Angeles	LD 14+6	444 Encina
Hastings, Robert	Sawtelle	Chem. 122–16	560 Encina-p
Hastings, Ross Reed	Sausalito	LD 104+113	31 Sequoia
Hatch, Hazel	Modesto	Ed. G.A. 97·46+21	332 Roble
[234]Hauck, Roland Leonard	Oakland	LD 24+9	110 Encina-p
[4]Haulot, Leona Mary A.B., Arizona, 1923	Tempe, Ariz.	Educ. gr.	Roble
Hausch, Douglas C.	Visalia	LD 45–9	229 Encina
[1]Haviside, Byron Latham	San Francisco	LD 3–9	349 Encina
[12]Haviside, Russell Harry	San Francisco	LD 52–20	Kappa Sigma
[3]Hawkins, Charles James	Hollister	LD 3–8	216 Encina
[234]Hawkins, Robert Ziemer	Reno, Nev.	Pol. S. 112+106	34 Sequoia
[23]Hawkins,Sidney William A.B., Stanford, 1924	San Francisco	Fr. 67·114+136	471 Addison-p
[5]Hawkins,Stanley Lloyd	Mountain View	Law. 131+25	Mountain View-mv
[1]Hawley, James LeRoy A.B., Stanford, 1924	Palo Alto	M.E. 182+166	204 Cowper-p
[4]Haxton, Wallace Raymond	San Jose	Educ. 22·82+7	127 Fremont, SJ-sj
[12]Hay, Gerald Myers	Bakersfield	LD 69–12	Delta Chi-*1304*
[12]Hayashi, Francis Minoru	San Francisco	LD 96+85	Japanese Club-*598*
[12]Hayden, Clifford Russell	San Francisco	LD 15·31–22	313 Toyon
Haydock, Ethel Martin	Oxnard	LD 45+28	338 Roble
[2]Hayfer, Paul	San Francisco	Pre-Med. 101·66–20	405 Encina
[4]Hayman, May Elizabeth	Pasadena	LD sp.	360 Roble
[4]Hays, Creighton E. A.B., State College of Washington, 1922	The Dalles, Ore.	Hist. gr.	Base Hospital-p
Hays, Frank Bellchambers	Palo Alto	M.E. 158+27	133 Toyon-*554*
Hays, George P.	Palo Alto	Econ. 130+13	Chi Psi-*588*
Hays, Harford Holmes A.B., Stanford, 1924	Palo Alto	Econ. 182+83	825 University-p
[12]Hays, Vida	Palo Alto	LD 10·72–1	825 University-p
Hays, Walter Grant	Palo Alto	Law 129+114	Chi Psi-*588*
[4]Hayward, Edna A.B., Stanford, 1910	Redwood City	Span. gr.	66 Jeter, RC-rc
[4]Hayward, Ida A.B., Stanford, 1911		Zool. gr.	Pacific Grove

[1]Hazeltine, Karl Snyder B.S., California, 1914	San Jose	Educ. gr.	660 S. 11th, SJ-sj
Hazeltine, Matthew Emery B.S., California, 1916; A.B., Stanford, 1922	San Jose	Med. gr.	220 Golden Gate, SF-sf
[4]Heald, Gertrude Waite	Stockton	LD sp.	221 Roble
[5]Healey, James Claude	San Francisco	Law sp. 121+36	Menlo Park-mp
Healton, Ivan Freeman A.B., Stanford, 1922	Palo Alto	Span. gr.	324 Emerson-p
[5]Heckendorf, Percy Charles A.B., Stanford, 1923	San Jose	Law gr.	40 Encina-*883*
[23]Hedges, Donald Addison	Palo Alto	LD 31+10	558 Lincoln-p
Heidig, Alfred Gerhard	San Francisco	LD 36·112+171	405 Kipling-p
Heller, George Sydney	Los Angeles	LD 37+15	330 Encina
Hellesoe, Gregory Fred	Willits	LD 22–21	256 N. 15th, SJ-sj
[23]Helm, Morton Baldwin	Los Angeles	LD 48–27	446 Encina-*605*
Helser, J. Henry	Palo Alto	LD 92–25	Sigma Nu
[4]Helsley, Marie Mildred A.B., Simpson, 1912	Denison, Ia.	Sch. Ed. gr.	114 Roble
Henderson, James Gordon A.B., Stanford, 1921	Los Angeles	Med. gr.	2436 Clay, SF-sf
[5]Henderson, Virginia June	Los Angeles	Phil. 151+58	301 Roble-*931*
[12]Hendricks, John Allan B.S., Utah Agricultural, 1920; J.D., Stanford, 1924	Logan, Utah	Law gr.	235 Emerson-p
[24]Hendrickson, Arthur H. B.S., Michigan Agricultural, 1913; M.S., Cornell, 1920	Mountain View	Bot. gr.	Mountain View-mv
[4]Hendrickson, Carl Edward A.B., Minnesota, 1920	Santa Maria	Educ. gr.	258 Toyon
Henry, Archie Ward B.S., Washington State College, 1910; A.B., Stanford, 1923	Pullman, Wn.	Med. gr.	127 Lowell-p
[27]Henry, Collice A.B., California, 1921, A.M., 1922	San Luis Obispo	Cl. Lit. gr.	Madroño
Henry, Warner White	Los Angeles	LD 105+56	DeltaKappaEpsilon-*O*
[1]Henry, William Howard	Los Angeles	Geol. 43·28–26	Zeta Psi
[4]Hepburn, Samuel Benedict A.M., Indiana, 1916	Santa Maria	Hist. gr.	Los Altos, Box 186, la
Herdman, Robert Eugene	Los Angeles	Econ. 95–8	301 Union-*942*
[4]Herlily, Ernest Herbert	Tucson, Ariz.	LD sp.	239 Toyon
[1]Herndon, Leroy Travers, Jr.	Gonzales	LD 63+49	405 Encina
[5]Herold, Stanley C. A.B., Stanford, 1909	Stanford Univ.	Geol. gr.	4 Union
Herrington, Lovic Pierce	Waynesboro, Ga.	LD 47+23	107 Encina-*1172*
[1]Herskovitz, Abe R.	So. Brownsville, Pa.	LD 6–15	43 Encina
Herth, Leslie Patrick	Los Angeles	LD 45+24	318 Encina

Hertlein, Leo George A.B., Oregon, 1922; A.M., Stanford, 1923	Palo Alto	Geol. gr.	427 Homer-p
Hertsche, Joel C., Jr.	Portland, Ore.	LD 92+49	207 Branner
[5]Herz, Ludwig Ernest	Mayfield	LD 90+66	Mayfield-m
[1]Hess, Chester N. A.B., Stanford, 1924	Ogden, U.	Engl. 39·145+49	33 Sequoia
Hess, Kenneth William	Ogden, U.	LD 89+50	AlphaTauOmega-*1384*
[4]Hess, Reuben M.	Tucson, Ariz.	LD ‡	142 Toyon
Hesselmeyer, Clarence T. A.B., Stanford, 1924	San Francisco	E.E. gr.	335 Union-*673*
Hesson, Lois	Elko, Nev.	LD 48+15	322 Roble
Hesthal, Cedric Edward	San Francisco	LD 160+67	750 Hamilton-p
Heston, Albert Eugene	San Bernardino	LD 45·49+35	404 Encina
[1]Heublein, Clarence M. A.B., Wisconsin, 1918; J.D., Stanford, 1924	Fox Lake, Wis.	Law gr.	801 Waverley-p
§[5]Hewitt, Jess S.	Santa Monica	LD	Palo Alto
Hewitt, Mary Elizabeth A.B., Stanford, 1921	Hollister	Med. gr.	2869 Clay, SF-sf
[1]Hey, Clifford Lester	Hayward	LD 103–6	Kappa Sigma
[4]Hicklin, Maurice A.B., Missouri, 1910; A.M., Stanford, 1924	Palo Alto	Engl. gr.	912 Waverley-p
Hickman, Richard	San Francisco	LD 81+13	1636 Emerson-p
[12]Hicks, Aileen Leighton	Los Angeles	LD 47+11	Chi Omega
[4]Hickson, Francis J.	Los Angeles	Engl. ‡	240 Toyon
[3]Higgins, Clyde R. A.B., Stanford, 1924	Menlo Park	M.E. 171+90	Menlo Park-mp
[4]Higgins, Lena A.B., Southern California, 1919	Long Beach	Zool. gr.	125 Grand, PG-pg
Hilgesen, James A.B., Stanford, 1924	San Francisco	Med. gr.	1970 Broadway, SF-sf
[4]Hill, Andrew P. A.B., Stanford, 1922	San Jose	Educ. gr.	356 So. 12th, SJ-sj
Hill, Archibald Anderson A.B., Pomona, 1923; A.M., Stanford, 1924	Stanford Univ.	Engl. gr.	316 Union-*1145*
[23]Hill, Beatrice E.	Albuquerque, N.M.	LD 15·69+76	Gam.PhiBeta-*1337*
[4]Hill, Edith Abigail A.B., Stanford, 1903	Redlands	Fr. gr.	181 Roble
Hill, Mary Anderson A.B., Vassar, 1889; A.M., Stanford, 1922, Ph.D., 1924	San Diego	Engl. gr.	723 Hamilton-*1145*
Hill, Ward Ames	San Francisco	LD 95+130	212 Toyon-*545*
Hiller, Raymond Earle	Reading, Pa.	Law ‡ 18–19	525 Channing-p
[3]Hilliard, Del Hicks	Tacoma, Wn.	LD sp. 6–6	122 Encina

§ Deceased June 7, 1924

[2]Hillis, Donuil — Los Angeles — Geol. gr. — Laurel Court, MP-mp
A.B., Stanford, 1921, A.M., 1924
[23]Hillis, Katholeen — Los Angeles — Phil. 45·78+87 — 327 Roble
Hilton, Miriam — Portland, Ore. — Engl. 6·154+163 — Kap.Al.Thet.-*1336*
Hinckle, William — Los Angeles — LD 44+23 — 364 Encina
Hinckley, Barton Armin — Hollywood — Econ. 181+72 — Phi Sig. Kap.-*538*
A.B., Stanford, 1924
Hinckley, Richard H. — Hollywood — Econ. 178+73 — Delta Kappa Eps.
Hines, Don Carlos — San Jose — LD 103+202 — 201 Toyon-*545*
[23]Hinkle, George Henry — Truckee — Engl. 89·27+19 — 558 Hawthorne-p
[1]Hinshaw, Albert Franklin — Auburn — LD — 23 Encina
Hirschman, Reginald Marion — San Mateo — Hist. 180+33 — 519 Encina-*734*
A.B., Stanford, 1924
Hitchcock, Lewis G. — Stanford Univ. — LD 124+26 — Base Hospital
Hjelm, Harold LeRoy — Turlock — Law 141+145 — 241 Branner
[23]Hobbie, Henry William — Redwood City — LD 27+4 — 126 Encina
Hobro, William L. — San Francisco — Min. 145+46 — 139 Toyon-*545*
Hobson, Charles Wilfred — Whittier — Law 43·138+166 — 62 Sequoia-*688*
A.B., Stanford, 1924
[4]Hoch, Irene Childrey — Modesto — Engl. gr. — Roble
A.B., George Washington, 1918
[12]Hodgkinson, Melvin Greig — Vallejo — LD 35–30 — 611 Bryant-p
Hodgson, Daphne — Yonkers, N.Y. — LD 63+30 — Pi Beta Phi-*635*
[12]Hodgson, Foresta — Yonkers, N.Y. — LD 102+36 — Pi Beta Phi-*635*
[1]Hoefer, Andrew Jack — Palo Alto — LD 69·36+11 — 620 Gilman-p
Hoefer, Helen Dorothy — Fresno — Span. gr. — Alpha Omicron Pi-*1367*
A.B., Oregon, 1923
[5]Hofflund, John Leslie — El Cajon — Law gr. — 25 Sequoia-*541*
A.B., Stanford, 1924
[23]Hoffman, Clifford Pearson — Petaluma — LD 26+9 — 408 Encina
[1]Hoffman, John Wade — Grimes — LD — 115 Alma-p
[5]Hoffman, Mary Chaney — San Jose — Hist.-Jn. 164+257 — 420 Florence-p
[1]Hoffman, Rolland Wm. — Oakland — LD 65–22 — 8 Union
Hoffmann, Floyd Edward — Palo Alto — Law 133+24 — 442 Tasso-p
[24]Hoffmann, Paul Edward — Oakland — LD 124+106 — Toyon
Hoffmann, Pauline May — Los Angeles — LD 22·72+47 — 366 Roble
Hofmeister, Ralph C. — Enon Valley, Pa. — Cl. Lit. gr. — 329 Hawthorne-p
A.B., Cedarville, 1914; A.M., Stanford, 1924
Hogan, Phyllis Marie — Fowler — LD 48+37 — 356 Kingsley-p
Hogan, Verda Irene — Fowler — LD 48+63 — 356 Kingsley-p
Hogle, Milton Monroe — Lincoln — Law 138+4 — Theta Chi-*1383*
[4]Holaday, Perry Ward — San Jose — Sch. Ed. gr. — 496 So. 9th, SJ-sj
A.B., Stanford, 1923

Holbrook, Bernard D. A.B., Stanford, 1924	AnnArbor,Mich.	Phys. 45·159+237	Alp. DeltaPhi-*J*
[23]Holbrook, Joanna O.	AnnArbor,Mich.	Fr. 46·83+63	Delta Gamma-*1366*
[5]Holdereque-Huber, Y. A.B., Southern California, 1923	Bühler,Switzerl'd	Med. gr.	Columbia, Mayfield-m
Hollembeak, Hugh Ryan	Long Beach	LD 93+96	Alpha Sigma Phi-*1357*
[4]Holliday, Guy	Kansas City, Mo.	LD 10–4	137 Toyon
Holman, Cranston W.	San Francisco	LD 48+51	335 Encina
[4]Holsclaw, Dugald S.	Tucson, Ariz.	LD 12+12	Toyon
Holstein, Waldemar	Fresno	LD 34+8	105 Encina
Holt, Haynes Hammie	Texarkana,Ark.	LD 38+3	1004 Cowper-p
[1]Hood, Dwight Lincoln	Reno, Nev.	Pre-Med. ‡ 27–14	303 Union
Hood,Margaret Henrietta A.B., Stanford, 1924	LongBeach	Engl. 184+302	103 Roble-*537*
Hood, Thomas Howard	Pasadena	LD 65–4	Delta Chi-*1304*
Hooker, Philip Burton	Beverley Hills	LD 77+21	Kappa Alpha-*1356*
[5]Hooker, Robert Gay, Jr. A.B., Harvard, 1923	San Mateo	Law gr.	San Mateo-sm
Hoots, Harold William B.S., Oklahoma, 1921	Mayfield	Geol. gr.	P.A.&Hanover, M-*604*
Hoover, Herbert, Jr.	Washington, D.C.	LD 127+44	320 Encina-*708*
[34]Hoover, Hulda Brooke	Stanford	LD 15–5	325 Roble-*A*
Hoover,Malverne Edward	Santa Monica	LD 98+95	27 Sequoia
Hopkins, Theodore Amos	Santa Cruz	LD 88+45	211 Toyon-*645*
[4]Hopkirk, Lois	Grand Junction, Colo.	Educ. ‡	331 Roble
Hoppet, Max Foster	Palo Alto	Chem. 152+161	305 Churchill-p
[5]Horine, William H., Jr.	Henryetta,Okla.	LD 29+39	353 Encina
Hornblower,Angus Gordon	Palo Alto	LD 98–10	102 Middlefield-p
[4]Hornkohl, F. Frank	San Bernardino	LD	Alpha Sigma Phi-*1357*
Hornlein, Hugo Garvin	San Francisco	LD 126+14	136 Toyon
[4]Horton, Mark M. A.B., Columbia, 1912	Los Angeles	Engl. gr.	149 Cowper-p
Hosepian, Vaughn M. A.B., Stanford, 1923	Sanger	Med. gr.	2201 California, SF-sf
[23]Hosmer, Forest E.	Modesto	LD ‡ 56–36	314 Union
[4]Hostetler, Ivan Paul B.S., Kansas State Normal School, 1919	Miami, Ariz.	Educ. gr.	270 Kellogg-p
[1]Hotaling, Lorice Katharine	Pasadena	Engl. 111+150	Delta Delta Delta
Hotchkiss, Harold Kidwell	Altadena	LD 44+37	305 Encina
Hotchkiss, Theodore Carroll	LosAngeles	M.E. 90·45+6	Theta Xi-*1355*
Houser, John	Woodside	LD ‡ 30–19	Alpha Delta Phi-*J*
[4]Hovey, Charler G.	KlamathFalls,Ore.	LD 36–23	245 Toyon
How, John Hock	Canton, China	LD 91+27	Chinese Club-*131*

[4]Howard, Charles Abner A.B., Baker, 1907; A.M., Oregon, 1923	Marshfield,Ore.	Educ. gr.	Madroño
[5]Howard,EdwardAthelstane	Los Angeles	Econ. 17·138+31	Zeta Psi-*B*
Howard, Evelyn	Sacramento	Chem. 150+191	104 Roble-*1210*
[1]Howarth, Kingsley K. A.B., Stanford, 1924	Fitchburg, Mass.	Econ. 48·134+55	Theta Delta Chi
[12]Howe, Ralph Denny	Palo Alto	Pre-Med. 137+99	955 Channing-p
Howes, Helen Dorothy	Omaha, Neb.	Fr. 46·91+93	102 Roble
Howlett, Elizabeth	San Francisco	LD 47+78	375 Roble
Hoxie, Robert Osborn	Los Angeles	Econ. 43·92+39	Delta Tau Delta
[4]Hoxie, Stephen Parker	Los Angeles	LD ‡	325 Union
[4]Hoyt, Jonathan	Stanford Univ.	Pre-Med. 102·30–10	Toyon
[5]Hsieh, Wen Ping	Hupeh, China	Engl. 90·45+30	Chinese Club-*1136*
Huang, Ching-Sze A.B., Stanford, 1924	Nanking, China	Educ.135·48+25	Chinese Club-*1079*
[2]Huang, Hua Pias A.B., Washington, 1922	Palo Alto	Educ. gr.	168 University-p
Hubbard, Harley Corwin	Los Angeles	Law 140+43	Delta Upsilon-*1353*
[13]Hubbard, Mary Elizabeth A.B., Stanford, 1924	Hollywood	Engl. 90·104+2	Pi Beta Phi *1332*
Hubbard, Richard K.	Hollywood	LD 52·49+79	146 Toyon
[4]Hudelson, Bernice Marie	Hughson	Engl. ‡	840 Bryant-p
[4]Hughes,Annie Augusta	San Francisco	LD sp. 12+14	171 Roble
Hughes, Cornelius Louis	San Francisco	LD 39–2	221 Encina
[1]Hughes, Donald Dudley A.B., Oklahoma, 1921; Engineer, Stanford, 1924	Palo Alto	Min. gr.	559 Kingsley-p
[1]Hughes,Frederick Marshall A.B., Stanford, 1924	Palo Alto	Econ. 181+107	Delta Chi
Hughes, G. Herndon	Fayette, Mo.	LD 85·49+4	1121 Bryant-p
Hughes, Robert Elwyn A.B., Stanford, 1921	San Francisco	Med. gr.	1063 Wash., SF-sf
Hugo, Merrill S. A.B., Stanford, 1924	Mountain View	M.E. 180+60	Mountain View-mv
Hull, Mary Ellen	San Mateo	Econ. 169+91	347 Roble
[4]Hume, Emma Harriett A.M., Albion, 1913	Modesto	Zool. gr.	231 Central, PG-pg
[4]Hummel, Redolpho Braan A.B., Stanford, 1904	Los Gatos	Engl. gr.	Rt. A, Box 69,-lg
Humphrey, Harold Eugene	Reno, Nev.	LD 88+23	SigmaAlphaEps.-*1305*
[134]Huneke, Albert Hussey	Los Angeles	Hist. 9·125+18	Alpha Delta Phi-*J*
Hunkins, Wilfred Romayne	Fresno	Math. 90·48+33	126 Branner-*554*
Hunnicutt, Leland G. A.B., California, 1921	Whittier	Med. gr.	757 6th ave., SF-sf

Hunsberger, Clarita	Los Angeles	LD 30+48	*237* Roble
[1]Hunt, Leonard Wilbur	Palo Alto	Geol. sp. 71–7	801 Waverley-p
[5]Hunt, LeRoy Lousley	Santa Barbara	LD 31–3	111 Encina-*805*
[1]Hunt, Richard A.B., Harvard, 1910	Winchester, Mass.	Zool. gr.	735 Bryant-p
Hunt, Robert Walter	Santa Barbara	LD 90+47	PhiGammaDelta-*1324*
[4]Hunter, Allene Beryl	Los Angeles	LD	217 Roble
Hunter, Charles Henry	Point Arena	LD 40–3	346 Encina
Huntington, Evelyn Hope	Palo Alto	Ed. G.A. 134+47	Chi Omega
Huntington, Herbert A. A.B., Stanford, 1923	Long Beach	Med. gr.	2319 Webster, SF-sf
[4]Hurley, Charles Clifton A.B., Stanford, 1920, A.M., 1921	Albion	Law gr.	305 Union-*1381*
Hurley, Peter Richard	Albion	Law 132+14	555 Encina-*1381*
Hurst, Walter Parnall	Fillmore	LD 40+1	31 Encina
Husband, Richard David	Modesto	Chem.59·102+118	PhiSig.Kap.-538
[5]Hutchinson, Lester B.	Reading, Mass.	LD 72+47	11 Sequoia
Hyde, Carol Elizabeth A.B., Stanford, 1924	Palo Alto	Engl. 180+277	306 Roble
Hyde, Susan McKee	Santa Barbara	LD89+119	KappaKappaGam.-*1354*
Hyde, Virginia Florence	Chicago, Ill.	LD 49+52	342 Roble
[12]Hyland, Frank Wm., Jr.	San Francisco	LD sp. 45+23	Delta Upsilon
Ichikawa, Yoshio	Hiroshima, Japan	Econ.14·137+173	Jap'nseClub-*598*
Imokawa, John Kiichi A.B., Stanford, 1923, Engineer, 1924	Fukuoka, Japan	E.E. gr.	2 Alvarado-*117*
Ingram, Fred Raymond	Palo Alto	C.E. 149+111	825 Cowper-p
[5]Innes, Wells William A.B., Stanford, 1924	Santa Ana	Sch. Ed. gr.	DeltaTauDelta-*1363*
[4]Ireland, Anne Scott A.B., Mills, 1921; A.M., Stanford, 1922	Palo Alto	Engl. gr.	166 Bryant-p
[4]Ireland, Ruth Elizabeth	Palo Alto	LD ‡	166 Bryant-p
Iriki, Walter Keisuke	Oakland	LD 50+56	Japanese Club-*598*
Irving, Donald Riek	Hollywood	LD 97+78	119 Toyon-*I*
Irving, Laurence A.B., Bowdoin, 1916; A.M., Harvard, 1917; Ph.D., Stanford, 1924	Mayfield	Phyl. gr.	725 Stanford, M
Irwin, Clarence	Portland,Ore.	LD 45+75	15 Encina
Irwin, Jacob Carney	Twin Falls, Ida.	Econ. 12·110+15	*320* Encina-*682*
[5]Irwin, John B., Jr.	Minneapolis, Minn.	LD 15·100+40	Delta Upsilon-*1353*
[23]Irwin, Louise Christy	Long Beach	LD 31+*26*	147 Roble
[1]Irwin, Thomas George	Twin Falls, Ida.	Econ. 195+70	113 Encina
Irwin, William Hyde	Brookdale	Ent. 157+101	55 Sequoia-*1004*
[3]Isaacs, Hart	Los Angeles	LD 14+5	345 Encina

[5]Isensee, Frank Paul — Baltimore, Md. — Law 112+38 — 53 Sequoia
[3]Ito, Seiji — Kyoto, Japan — Ent. gr. — Japanese Club-*598*
Tokyo Imperial University, 1913
[4]Jackson, Marie Herbert — Los Angeles — Hist. gr. — 300 Roble
A.B., Stanford, 1911
[4]Jackson, Marion Josephine — Clovis — Educ. ‡ — 158 Hope, MV-mv
[5]Jackson, Paul Riley — Redding — Law 92+115 — 138 Branner-*21*
[4]Jacobs, Hyme, Jr. — San Francisco — LD — *326* Union
[4]Jacobs, Muriel Jessica — San Francisco — Law gr. — Kingscote
A.B., California, 1924
Jacobs, William H. — BattleCreek,Mich. — LD 42·46+47 — 41 Encina-*583*
[1]Jacoby, Rosalie L. — Los Angeles — Fr. 104·7+0 — *220* Roble
[5]Jaffe, Louis Leventhal — San Francisco — Law 115+200 — 211 Branner
James, David Henry — Denair — LD 72·59+7 — 85 Sequoia
[23]James, David John — Riverside — LD 70–22 — Delta Tau Delta
[5]James, Norris Edward — San Francisco — Law 149+11 — AlphaKappaLambda
James, Stewart Daniel — Compton — Econ.111·76+21 — PhiGam.Del.-*1324*
A.B., Stanford, 1924
James, William Robert — Los Angeles — Law 92·92+9 — Zeta Psi-*B*
A.B., Stanford, 1924
[12]James, Wright Elwood — Compton — Geol.52·133+84 — PhiGam.Delt.-*1324*
A.B., Stanford, 1924
Jameson, Moroni — Long Beach — LD 36+26 — Base Hospital-*1*
Jameson, Ruth Avis — Corona — Econ. 8·173+41 — 218 Roble-*836*
A.B., Stanford, 1924
[4]Jamison, Emma Van Noy — Santa Clara — Econ. 67·95+114 — 255 Roble
[4]Jankelson, Marvin H. — Far Rock., N.Y. — Econ. ‡ — Hotel Ramona-p
[5]Jarvis, Russell Boyden — Greeley, Colo. — Law gr. — Phi Delta Theta-*1334*
A.B., Stanford, 1921
[5]Jayne, Burton Hilton — Palo Alto — Law 10·106+96 — 1827 Cowper-p
Jayred, Wallace Bierce — Pasadena — LD 50+26 — *200* Encina-*1201*
[4]Jeannin, Margaret Louise — Pasadena — LD — 117 Cowper
Jedlicka, Charles Ralph — Allegan, Mich. — LD 40–38 — *27* Cabrillo
Jenkins, Kendall Reed — Palo Alto — C.E. 200+173 — 381 Lincoln
A.B., Stanford, 1924
Jenkins, Richard Leos — Culver City — Law 10·142+132 — *27* Salvatierra-*981*
[4]Jenkins, Roy Horace — MountainView — Ed. G.A. ‡ — 556 P.A. ave., MV-mv
[4]Jensen, James Marinus — Provo, U. — Engl. gr. — *706* Cowper-p
A.B., Brigham Young, 1913; A.M., Chicago, 1919
[4]Jensen, Milton B. — Mendon, U. — Educ. gr. — 312 Toyon
B.S., Utah Agricultural, 1924
[1]Jensen, Robert LaMoyne — San Francisco — LD 15–10 — 42 Encina
Jensen, Walter Harry — Vallejo — LD 41–2 — *247* Encina

[5]Jergins, Allen Andrew	Los Angeles	Min. 143+64	Delta Upsilon-*1174*
Jergins, Merritt Dean	Los Angeles	LD 60+9	217 Encina-*1174*
[23]Jespersen, Holger Johannes	Palo Alto	M.E. ‡ 28+3	846 Bryant-p
[1]Jetter, George Dominic	San Jose	LD 41-49-11	353 N. 3rd, SJ-sj
[12]Jewell, Marion Richard	Palo Alto	LD 67+5	*327* Waverley-p
[3]Jimerson, Jack Richard A.B., Stanford, 1923	Payette, Ida.	Med.gr.	*27*Encina ave.-p
Johansen, Donald Alexander	Arcata	Bot. 133+93	49 Sequoia-*55*
[4]Johns, Florence Marcella A.B., Baker, 1921	Santa Barbara	Educ. gr.	Roble
[27]Johnson, Arthur Beers	Palo Alto	LD 30+28	403 Kingsley-p
Johnson, Charles Christian A.B., Stanford, 1924	Menlo Park	Pre-Clin.90-96+114	MenloPk.-mp
[4]Johnson, Clarence Elbert B.S., South Dakota State College, 1920	San Diego	Educ. gr.	Campbell-c
[5]Johnson, Claude Melvin A.B., Stanford, 1923, A.M., 1924	San Jose	Educ. gr.	*234* N. 10th, SJ-sj
Johnson, Edith Matilda	Tacoma, Wn.	LD 45+84	114 Roble
[23]Johnson, Elmer William	Everett, Wn.	LD 48-66+37	PhiSig.Kap.-*538*
Johnson, Floyd Lemuel	Adin	LD 67–7	423 Encina
[4]Johnson, Lottiellen	Sacramento	Ed. G.A. 100-16+26	104 Roble
[4]Johnson, Marie Cushing B.S., South Dakota State College, 1921	San Diego	Educ. gr.	Campbell-c
Johnson, Melvin Harold	San Jose	LD 6-92+91	210 Toyon
[5]Johnson, Oliver Wolcott A.B., Stanford, 1921, Engineer, 1922	Palo Alto	Chem. gr.	430 Tennyson-p
[34]Johnson, Radcliffe Conner	Phoenix, Ariz.	LD 37+17	Theta Delta Chi-*1331*
[2]Johnson, Richard Woodburn	Palo Alto	LD 70–24	363 Melville-p
Johnson, Samuel Raymond	Cupertino	LD 55+3	Delta Tau Delta
Johnson, William	AmericanFalls, Ida.	LD 41+10	Menlo Park-mp
Johnson, William Ruel, Jr.	Delta, Colo.	LD 38+5	207 Encina
[4]Johnston, Adele	Santa Ana	Sch. Ed. ‡	206 Roble
Johnston, Charles Francis	Los Angeles	LD 75–22	Zeta Psi
[1]Johnston, Evelyn Hatch	San Jose	Econ. 136+26	1562Alameda, SJ-sj
[134]Johnston, Wm. Rowland	SanFrancisco	LD 18–17	Alpha Delta Phi-*1289*
[4]Jollyman, Alice A.B., Stanford, 1905, A.M., 1915	Cupertino	Hist. gr.	Cupertino-c
[4]Jones, E. Mabel A.B., Stanford, 1923	Santa Clara	Sch. Ed. gr.	Santa Clara-sc
Jones, Fred Norman	Victor, Colo.	LD 100+59	213 Toyon-545
[5]Jones, Louis Ernest A.B., Stanford, 1924	Palo Alto	Med. gr.	510 University-p
Jones, Malcolm Nixon	San Bernardino	LD 46+82	204 Encina

Jones, Ralph Joseph	Calgary, Canada	Econ. 142+12	125 Branner-*1300*
Jongeneel, Frances Alberta	Berkeley	LD 23·74+29	Al.Omicron Pi-*1367*
Jordan, Eric Knight	Stanford Univ.	Geol. 178+159	Delta Upsilon-*1342*
[4]Jordan, John Stuart A.B., Denver, 1916; A.M., Stanford, 1923	Colo. Spgs., Colo.	Educ. gr.	25 Salvatierra
Jordan, Ruth Esther	San Francisco	LD 45+55	*236* Roble
Joseph, Paul Mitchell A.B., Stanford, 1924	Los Angeles	Law gr.	*302* Branner-*937*
Joseph, Samuel J.	Los Angeles	LD 42+4	*222* Encina-*1169*
[5]Joyce, Elizabeth Grace	Missoula,Mont.	French 74·97+72	200 Roble
[3]Judah, Nelson Van A.B., Stanford, 1924	Los Angeles	Econ. 6·174+53	DeltaUpsilon-*1353*
Judd, Grace	Glendale	Hist.120+136	DeltaDeltaDel.-*1325*
Junkert, Wilhelm Ernst	Stanford Univ.	LD 33–4	415 Encina
Kackley, Evan Morgan	Long Beach	LD 45+47	316 Encina-*1110*
[12]Kahle, Francis Clifford A.B., Stanford, 1924	San Diego	Econ. gr.	Sigma Chi
[5]Kahn, Edgar Myron	San Francisco	Econ. 131+6	521 Encina-*727*
[1]Kardos, Emil Alfred	San Francisco	LD 3–16	*23* Encina
Karr, Frank Randolph	Los Angeles	LD 92+35	*209* Branner-*601*
Kaseberg,Helen Henrietta A.B., Stanford, 1923	Portland,Ore.	Math. gr.	Manzanita-*808*
Kauffman, Francis Michael A.B., Stanford, 1924	Chicago, Ill.	Econ. 10·170+51	80 Sequoia-*1044*
[2]Kaufman, William Fred	Oakdale	LD 3–*27*	500 Encina
[4]Kay, Mary Evelyn A.B., Tulane, 1924	New Orleans, La.	Ent. gr.	*246* Roble
Kay, Raymond Myer	Los Angeles	LD 90+81	112 Toyon-*I*
[1]Kays, Cecilia Catherine A.B., Trinity, 1912; A.M., Stanford, 1916	Los Angeles	Engl. gr.	Kingscote
[12]Kazan, James A.B., Stanford, 1923	Philadelphia, Pa.	C.E. gr.	*327* Emerson-p
Kearns, George Thomas	Fresno	Geol. ‡ *29–23*	Theta Xi-*1355*
[4]Keating, Harold Bernard	Reno, Nev.	Econ. ‡	*233* Union
[3]Keene, Beryl Monroe	Los Angeles	LD ‡ 16+18	44 Encina
Keesling, Wana Myrle	Campbell	Engl. 135+98	Alpha Om. Pi-*1637*
[4]Keezel, Dorothy G. A.B., Mt. Holyoke, 1911; A.M., Southern California, 1918	Walla Walla,Wn.	Engl. gr.	Madroño
[4]Keezel, Enos A.B., Oregon, 1915, A.M., 1919	Walla Walla, Wn.	Educ. gr.	Madroño
[4]Kefauver, Grayson N. A.B., Arizona, 1921	Frederick, Md.	Educ. gr.	Sigma Alpha Eps.-*1305*
Keil, William Frederick	Bachelor	LD 87+17	215 Branner

Keith, Frank Allen, Jr. Los Angeles LD 45+4 234 Encina
[4]Keller, Clara Drusila San Bernardino Engl. gr. 315 Roble
A.B., Stanford, 1901
Kelley, Ernest James San Francisco Engl. 116·72+37 508 Encina-*592*
A.B., Stanford, 1924
[5]Kelley, Kenneth K. Palo Alto Chem. gr. 420 Hawthorne-p
A.B., Stanford, 1923
Kellogg, Frederick Palo Alto LD 49+68 750 Palo Alto ave.-p
[5]Kellogg, Leonard Frank Santa Ana Math. gr. 1102 Ramona-p
A.B., Stanford, 1924
Kelly, Adelaide Frances Palo Alto LD 18·73+36 909 Cowper-p
[5]Kelly, Handel Whittaker San Jose Hist. gr. 32 Emory, SJ-sj
A.B., Stanford, 1924
Kelly, James Bryden Palo Alto Ent. 178+25 Kappa Sigma-*1326*
Kelso, George Cameron Palo Alto Pre-Med. 136+55 151 Melville-p
[5]Kemnitzer, Luis Emmett Oakland LD 4·80+58 Delta Upsilon
[4]Kemp, Etheleen Frances Los Angeles Educ. gr. 266 Roble
A.B., Minnesota, 1910, A.M., 1911
[2,4]Kengla, Blanche San Francisco Sch. Ed. gr. Alpha Phi-*1387*
A.B., Stanford, 1923
[1,3,4]Kennedy, Harry Fowler Phoenix,Ariz. Econ. 122–1 Kappa Alpha
[4]Kennedy, Laura Elizabeth Palo Alto Sch. Ed. gr. 334 Lincoln-p
A.B., Stanford, 1923
[1,3,4]Kennedy, Robert B. San Jose Econ.-Jn.171+123 841Willis,SJ-sj
Kenney, Elizabeth Jane Los Angeles Law gr. Delta Delta Delta-*1325*
A.B., Stanford, 1923, J.D., 1924
[2,3]Kenney, John Edward Venice LD 28+0 402 Encina
Kenney, William John Pebble Beach LD 90+24 Sigma Alpha Eps.-*1305*
[5]Kent, Arthur Harold Altadena Law gr. 706 Cowper-p
A.B., Southern California, 1917
[2,3,4]Kepley, Nell Eden Braymer, Mo. Engl. gr. Manzanita
B.S., Missouri, 1917
[4]Kernan, Katharine New York, N.Y. Phyl. gr. 1328 Emerson-p
A.B., Columbia, 1922
Kerr, James William Los Angeles LD 76–1 Delta Tau Delta-*1363*
[4]Kevin, Katherine Menlo Park Engl. gr. Menlo Park-mp
A.B., College of the Sacred Heart, 1924
Khazoyan, Aram Haig Pasadena Econ. 102·37–12 242 Branner-*1011*
[5]Kibby, Ira Wesley Palo Alto Educ. gr. 1826 Waverley-p
A.B., Colorado State Teachers' College, 1918; A.M., Stanford, 1923
[12]Kidd, Worth R. Los Angeles LD 33·29+4 WarrenSch.,MP-*1143*
[2]Kiggens, Clarence Lindsay Econ. 188+106 Phi Gamma Delta
A.B., Stanford, 1924

Kiler, Elza Leslie A.B., Stanford, 1924	Santa Barbara	Ed.G.A.57·126+51	65 Sequoia-*551*
Kiltin, Russell	Duluth, Minn.	Hist. 5·136+167	504 Encina
Kimball, John Albion C. B.S., Tufts, 1923	Waltham,Mass.	Sch. Biol. gr.	500 Encina
Kimball, Stanley A.B., Stanford, 1924	Vancouver, Wn.	C.E. 100·97+34	Phi Sigma Kappa
[4]Kimber, George Card A.B., Stanford, 1920	Hughson	Educ. gr.	1776 Waverley-p
[4]King, Agnes Blanche A.B., California, 1923	Fillmore	Educ. gr.	Roble
[124]King, Clarence Van H.	San Francisco	LD 61–15	Chi Psi-*588*
King, David Litchard	Portland, Ore.	LD 79+5	Chi Psi-*588*
King, Donald Eliot A.B., Stanford, 1923	Porterville	Med. gr.	2165 California, SF-sf
[12]King, Douglas Low	Santa Cruz	LD 98+166	745 Cowper-p
[5]King,EdwardDimmick	EastTawas,Mich.	Zool. 33·140+31	311 Toyon
King, Ernest Charles	Mountain View	LD 3·152+28	Mountain View-mv
King, Guy Russell	Palo Alto	LD 48+0	651 Gilman-p
King, Harold George	Dinuba	LD 93+43	Sigma Chi-*628*
[4]King, Henry James A.B., Missouri, 1912, A.M., 1913	Fresno	Chem. gr.	330 Union
King, John Preston A.B., Stanford, 1923, J.D., 1924	Jasper, Ala.	Law gr.	1149 Middlefield Rd.
[5]King, Raymond Irvin A.B., Stanford, 1923	Porterville	Chem. gr.	821 Stanford, M-m
King, Thomas Scott	San Diego	Econ. 58·44+37	32 Encina-*839*
Kinkead, Dorothy E.	Paola, Kans.	LD 83+1	Gamma Phi Beta-*1337*
[12]Kinnear, Arthur	San Jose	LD 120+*22*	421 N. 4th, SJ-sj
Kinney, Paul B. A.B., Stanford, 1921	San Francisco	Med. gr.	2401 Sacramento, SF-sf
[14]Kinney, Ross Ellsworth A.B., Stanford, 1923	San Jose	Educ. gr.	480 S. 15th, SJ-sj
[22]Kinnison, Court John	Stockton	LD 141+106	83 Sequoia
Kirby, James Millard A.B., Stanford, 1924	Palo Alto	Geol. gr.	Mayfield-*110*
Kirk, Howard M. A.B., Stanford, 1924	Bozeman,Mont.	Geol. 10·182+31	9 Sequoia-*587*
Kirkbride, Audrey Martha	Palo Alto	LD 42+10	1345 Cowper-p
[4]Kirtlan, Edward A.	Covina	LD 61–10	117 Toyon-*642*
Kirwan, Nicholas Pierce	Los Angeles	LD 84–9	Phi Gamma Delta
[5]Kisich, Margaret Shedd A.B., Stanford, 1920	Belmont	Sch. Educ. gr.	Belmont-b
[23]Kitow, Edwin K.	Tokyo, Japan	LD 98–4	Japanese Club-*598*

Klahn, Ruth Lenore — Orange — Phil. 90·45+45 — 319 Roble-*556*
Klauber, Allan Salz — San Diego — LD 45+30 — 201 Encina
Klauber, Eleanor Barrett — San Diego — LD 88+59 — Delta Delta Delta-*1325*
[1]Klecka, Joseph — Brno, Czecho-Slovakia — C.E. gr. — 640 Waverley-p
A.B., Imperial Royal Technical University (Czecho), 1910, C.E., 1913; M.C.E., Cornell, 1922
[4]Kleckner, Thomas Madison — Sch. Ed. gr. — 210 Union
A.B., Stanford, 1921
[4]Kleemeyer, Albert Christian — San Jose — LD ‡ — R. 2, Box 222, sj
Kleinsorge, Paul Lincoln — Sacramento — LD 45+66 — 215 Encina
[1]Klenck, Herman A. — Libby, Mont. — Span. gr. — 314 Union
A.B., Stanford, 1923
Klink, Carol — San Francisco — Engl. 143+178 — Alpha Phi-*1387*
Klüver, Heinrich — Berlin, Germany — Psych. gr. — 1106 Ramona
Seminary Legeberg, 1919
[1]Klyver, Fred, Jr. — Fresno — Phyl. 109+14 — 9 Dolores
Knapp, Gordon Lampman — Los Angeles — LD 47+26 — 8 Dolores
[4]Knapp, William Albert — Chicago, Ill. — LD ‡ — 25 Alvarado
[1]Knight, Ernest Evert — Charleston, W.Va. — Educ. gr. — 318 Lytton-p
A.B., West Virginia, 1915
Knight, Helen Margaret — San Francisco — Span. 71·94+143 — Del. Del. Del.-*1325*
[4]Knights, Edwin Munroe — Riverside, R.I. — Chem. gr. — 841 Bryant-p
Ph.B., Brown, 1917
[4]Knode, Jay C. — Laramie, Wyo. — Educ. gr. — 616 Forest-p
A.B., Nebraska, 1908, A.M., 1922
Knowles, Violet Virginia — Los Angeles — Math. 90·90+83 — 312 Roble-*536*
A.B., Stanford, 1924
[12]Knowlton, Donald Rider — Palo Alto — Min. gr. — 1227 Byron-p
A.B., Colorado, 1920, Engineer, 1924
Knox, Irene E. — Redlands — Med. gr. — 1289 2nd ave., SF-sf
A.B., Redlands, 1922
Knox, Wallace William — Beaver, U. — LD 92+86 — Phi Kappa Psi-*1333*
[5]Koba, Fred Michio — San Francisco — Econ. 174+50 — Japanese Club-*684*
Koch, George Otto — San Francisco — M.E. 187+101 — 237 Toyon-*605*
A.B., Stanford, 1924
[1]Kodani, Hideo — Monterey — LD 19–30 — Japanese Club
Koeck, Ruth — San Jose — LD 41+0 — 330 Roble
Koepfli, Joseph Blake — Los Angeles — Chem. gr. — AlphaTauOmega-*1384*
A.B., Stanford, 1924
Kohler, John A. — Hollywood — LD 45·91+16 — Sigma Nu-*1385*
Kolstad, Arthur — East Stanwood, Wn. — Educ. gr. — 834 Kipling-p
A.B., Washington, 1916, A.M., 1920
[3]Konishi, William H. — Lemoore — M.E. 169+0 — Japanese Club-*598*
[234]Kopf, L. Josephine — Streator, Ill. — LD 75+73 — Sigma Kappa-*1327*

Korn, Kenneth Ernest	Oakland	LD 93+32	28 Sequoia
[12]Kotzias, Alexander C.	Athens, Greece	C.E. 186+124	44 Sequoia
A.B., Stanford, 1924			
Kraemer, Eric Eugene	San Diego	M.E. 170+17	PhiKap.Sigma-*1306*
Kramar, Lowell Graft	El Centro	Med. gr.	735 Bryant-p
A.B., Whittier, 1923			
Kramer, Rex Willard	Pilot Rock, Ore.	LD 47+30	62 Encina-*807*
Kranzthor, Gregory M.	El Paso, Tex.	LD 48·46+44	60 Encina
Krogness, Melville Arthur	San Francisco	Econ. 135+31	Sigma Chi-*628*
Krohn, Kenneth Giles	Raymond	LD 37–16	107 Encina-*1172*
Kropp, Donald Joseph	San Francisco	LD 93+49	32 Sequoia
Kropp, Walter John	San Francisco	LD *22–27*	26 Sequoia
Krotz, Donald Philip	Midwest, Wyo.	LD 91+22	106 Branner-*1095*
Krueger, Albert Paul	San Francisco	Zool. 4·142+276	775Post,SF-*1211*
Kuhnel, Gustaf L.	San Francisco	LD 104–11	536 Encina-*1*
[1]Kuhns, Grant Wilson	Los Angeles	Law gr.	Sigma Chi
A.B., Southern California, 1923			
[3]Kulmann, Charles Albert	Palo Alto	M.E. 111+85	1081 Ashby-*1047*
[5]Kunzel, Fred	San Diego	Law 48·60+21	7 Lasuen
Kurihara, Masuo	San Francisco	LD 26–9	JapaneseClub-*596*
Kurtz, Edward Fulton	Pasadena	LD 43·54+76	Sig.AlphaEps.-*1305*
[3]Kwaan, Tim On	Shanghai, China	LD 11–3	Chinese Club-*11*
[23]Kylberg, Brother Lars	Merced	Econ. 115+57	211 Union
Kynaston, Barbara Mary	San Jose	Pre-N.90·47+25	Atherton-RFD,rc
[4]Lacey, Wesley A.	Walla Walla, Wn.	Educ. gr.	228 Toyon
A.B., Baker, 1910; A.M., Kansas, 1911			
[1]LaForge, Edward Charles	Palms	M.E. 91·21–2	Menlo Park-mp
[5]Lagodzinski, Lewis	Palo Alto	LD 6·123+158	4 Sequoia
[5]Lake, Merrill Evans	Glendale	Geol. 139+9	Kappa Alpha
[4]Lamb, Helen Etta	Flagstaff, Ariz.	Educ. gr.	169 Roble
A.B., Colorado State Teachers' College, 1920, A.M., 1921			
Lamb, Henry Clarence	Fallbrook	Law 135+71	128 Branner-*1146*
Lamb, James Maynard	Fallbrook	LD 31–9	410 Encina-*1146*
Lamb, Malcolm Winslow	Oakland	LD 86+114	Alexandria Hotel-p
[4]Lambert, Louise	Redlands	Engl. gr.	Madroño
A.B., Redlands, 1924			
[23]Lampson,Myrle Robbins	MountainView	Engl.103+129	Mountain View-mv
Lamson, David Albert	Palo Alto	Hist. 135+160	319 Poe-p
[5]Landels, Edward Durley	Los Altos	Law gr.	20 Sequoia-*618*
A.B., Stanford, 1923			
[4]Landers, Virginia Beatrice	Arvin	LD	207 Roble
[1]Landrum, Morse Pfisser	San Juan	LD 3–12	126 Encina

Landweer, André Eisso	Santa Clara	M.E. 190+28	126 Branner
A.B., Stanford, 1924			
Lane, Warren Graham	Aberdeen, Wn.	LD 39+2	350 Encina
[12]Lang, Albert Ray	Palo Alto	Educ. gr.	481 Lytton-p
A.M., Nebraska, 1912			
[12]Lang, Otto William	Spokane, Wn.	Chem. gr.	Sigma Alpha Epsilon
B.S., State College of Washington, 1921; A.M., Stanford, 1924			
Lang, Richard E.	Seattle, Wn.	LD 46+35	225 Encina
Langer, Bernard Franklin	SanFrancisco	LD 98+111	528 Encina-*1025*
Langer, Ruth Anna	San Francisco	Psych. gr.	171 Churchill-*1025*
A.B., Stanford, 1923			
Langford,Lester Watts	NorthPlatte,Neb.	Econ.-Law 181+177	P.D.Th.-*1334*
A.B., Stanford, 1924			
[1]Langford, Russell R.	NorthPlatte,Neb.	Law gr.	Phi Delta Theta
A.B., Stanford, 1923			
[134]Langley, Rolland Ament	San Jose	LD 73+41	Alpha Sigma Phi
Lani, Thelma Rose	Elko, Nev.	LD 47+44	324 Roble
[234]Lapiere, Richard Tracy	Claremont	LD sp. 10·66+37	129 Branner-*970*
Lapp, Burton Leonard	San Jose	Law 159–10	8 Union-*M*
[12]Largey, Marie Elizabeth	Calistoga	LD 62+32	Chi Omega
[2]Larkin, Percy	Dallas, Tex.	Pre-Med. ‡ 0–15	501 Encina
Larnach, Donald W. P.	Honolulu, T.H.	M.E. 104·101+52	332 Union
A.B., Stanford, 1924			
Lasater, Carol	Oklahoma City, Okla.	LD 19·45+15	369 Roble
La Tourrette, Clinton	San Diego	Law 90·43+36	133 Toyon-*822*
Laub, Egbert Warren	Santa Cruz	Chem. 157+34	421 Encina-*1103*
Lauer, Donald Taylor	Payette, Ida.	Law 149+246	128 Branner
[12]Laughlin, Herbert Sidney	Los Angeles	Law 9·138–14	3 Sequoia-*725*
[1]Laughlin, Homer, III	Los Angeles	LD 11–25	13 Salvatierra
[1]Lauman, William Myers	Rochester,N.Y.	Germ. 109·13+22	Sigma Chi
Lavelle, Michael James	Los Angeles	Law 29·158+29	207 Union-*1182*
[134]Law, Raymond Frakes	Palo Alto	Phil. 52·99+36	631 Emerson-p
[4]Lawler, Philip Wendell	Gardena	Engl. ‡	129 Emerson-p
[5]Lawler, William Horace	Gardena	Med. gr.	129 Emerson-p
A.B., Southern California, 1923			
[3]Lawrence, David Reed	South Pasadena	Engl. ‡ 16+3	12 Sequoia
Lawrence, Frances	Hollywood	LD 6·85+92	201 Roble-*597*
Lawrence, Grove	San Mateo	M.E. 146+72	Theta Xi-*1355*
Lawrence, Helen Jean	San Mateo	Econ. 14·167+146	Delta Gamma
A.B., Stanford, 1924			
Lawson, Dick	Long Beach	LD 90–16	DeltaKappaEpsilon-*O*
Lawson, James Wilmer	Long Beach	LD 72+13	DeltaKappaEpsilon-*O*
[5]Lawson, Oliver L.	Long Beach	LD 118–3	215 Toyon-*1039*

Lazier, Richard Frederick	Los Angeles	LD 100+103	305 Branner
[4]Leach, Raymond H. A.B., Oberlin, 1904	Reno, Nev.	Hist. gr.	645 Gilman
Leak, Ora Marie A.B., College of the Pacific, 1923	Penryn	Math. gr.	25 Roble
[5]Learnard, Polly Dee	Gilroy	Cl. Lit. 140+149	300 Roble-*1028*
[4]Learned, Roy Ernest A.B., College of the Pacific, 1915	Elk Grove	Educ. gr.	Toyon
[4]Lederman, Edward D.	San Francisco	LD ‡	214 Toyon
[5]Lee, Beatrice	Las Animas, Colo.	Hist. 173+55	Alp.OmicronPi-*1367*
[23]Lee, Chiu Hang A.B., Stanford, 1924	Canton, China	Educ. 66·115+18	Menlo Park-mp
Lee, John Doulton	Auburn	LD 39–14	419 Encina-*1158*
[12]Lee,Margaret Eleanor T.	StanfordUniv.	LD 40+6	Gamma Phi Beta
Leeds, Fred Barclay A.B., Stanford, 1924	Stanford Univ.	Econ. 180+124	KappaAlpha-*1356*
[5]Leh, Marcus DeWitt	Trident, Mont.	Geol. 177+75	Sig.AlphaEps.-*1305*
[23]Leicester,Henry Marshall	SanFrancisco	LD 31+40	106 Encina
[4]Leidig, Phyllis R. A.B., California, 1923	Ogden, U.	Educ. gr.	Roble
[1]Leiser, Wm. Frederick A.B., Stanford, 1921, J.D., 1923	Twin Falls, Ida.	Law gr.	113 Encina
Leistner, Hugo	Palo Alto	LD 82–3	223 Toyon-*1259*
Leiter, John Arthur	Portland, Ore.	LD 44+51	117 Encina
Leonard, Curtis Bernard	Ely, Nev.	Pol. S.-Jn. ‡ 45–4	24 Sequoia-*573*
Leonard, J. Rollin A.B., Stanford, 1924	Redlands	Econ. 135·51+44	211 Union
[23]Leonard, Maurice E.	San Francisco	LD 30+21	106 Encina
[24]Leve, Lewis Hayd	Stanford Univ.	Law 46·104+128	Kingscote-*962*
Levi, John Newmark	Los Angeles	LD 59+7	62 Sequoia
Levi, Ruth	Aberdeen, Wn.	LD 46+26	326 Roble
[1]Levin, Isidor Irving	Palo Alto	LD 15+8	913 Emerson-p
Levison, Walter Herman A.B., Stanford, 1924	San Francisco	Econ. 181+68	202 Toyon-*593*
[5]Levit, Bertram William A.B., Stanford, 1924	San Francisco	Law gr.	228 Union-*826*
[1]Levy, Scherl Maurice A.B., Stanford, 1924	Joplin, Mo.	Engl. gr.	25 Salvatierra
Lewis, Helen Marion	Talisay, P.I.	LD 24·71+87	282 Roble-*535*
[23]Lewis, Kenneth Ellsworth	Dinuba	LD 30+12	116 Encina
Lewis, Percy Williams	La Grange, Ill.	LD 7·95+21	AlphaKap.Lamb.-*658*
Lewis, Rhoda Valentine	Talisay, P.I.	LD 55+100	284 Roble-*535*
Lewis,Richard Campbell	MountainView	M.E. 156+46	Mountain View-mv

[12]Lewis, Robert Emerson — Sacramento — LD 44–17 — 20 Lasuen-*644*
Lewis, Robert Ernest — Brussels, Belgium — Law 144+153 — 307 Union-*533*
Lewis, Sidney William — Burlingame — LD 42+12 — 138 Encina
[5]Licking, William Errol — BattleMt.,Nev. — Law 111·72+12 — 235 Toyon
Liebendorfer, Donald Eugene — Modesto — Econ.-Jn. 157+62 — 113 Encina-*1*
Lindblom, Evald Vincent — San Jose — LD 60+22 — 227 Branner
Lindersmith, Harry Edgar — Westwood — Law gr. — 224 Toyon
A.B., Stanford, 1922, J.D., 1924
Lindquist, Bertil Theodore — Strathmore — LD 41–11 — 326 Encina
Lindsey, Hugh Miller — Modoc, Ind. — Law 141+133 — 17 Salvatierra-*939*
[12]Line, George DeWitt — Blackfoot, Ida. — LD 26–6 — 251 Encina
[4]Linn, George Irving — Manteca — Educ. gr. — 33 Lincoln-p
A.B., Stanford, 1919, A.M., 1922
Linneman,Lawrence Joseph — Watsonville — Econ.-Law 147+36 — 437 Encina
Lippincott, Gardner P. — Hollywood — LD 88+2 — Beta Theta Pi-*1335*
Lissman, Marcel Alfred — Sacramento — LD 5·148+243 — 4 Sequoia
[4]Littel, Charles Lester — Centralia, Wn. — Educ. gr. — Palo Alto-p
A.B., Nebraska, 1912
Littler, Robert M.C. — San Francisco — Pol. S. 90·48+54 — 114 Branner
Litton, Charles Vincent — Redwood City — M.E. 8·173+232 — Eaton, RC-rc
A.B., Stanford, 1924
[2]Livesay, Ruth Haines — Palo Alto — Educ. gr. — 555 Lytton-p
A.B., Pacific, 1917; A.M., Washington, 1921
[5]Livesay, Thayne Miller — Palo Alto — Educ. gr. — 555 Lytton-*62*
A.B., Pacific, 1917; A.M., Washington, 1921
Lloyd, Edward Warren — Los Angeles — LD 91+109 — Alpha Delta Phi-*J*
Lockton, Eugene Andrew — Windsor — LD 142+43 — AlphaKap.Lamb.-*658*
[12]Loder, Arthur William — Palo Alto — Law 109+6 — 426 Florence-p
[23]Loder, Edward Stark — Palo Alto — C.E. 182+76 — 426 Florence-p
A.B., Stanford, 1924
Loe, Harris Davis — Wilsall, Mont. — LD 131+31 — 437 Encina-*1203*
[4]Loeb, Mary-Jane — Chicago, Ill. — LD ‡ — 1057 Guinda-p
[1]Loewensen, Leland H. — Portland, Ore. — Econ. 180+71 — 334 Union
A.B., Stanford, 1924
Loewenstein, Alfred B. — San Francisco — Econ. 188+69 — 204 Toyon-*1*
A.B., Stanford, 1924
Lofland, Evelyn — Whittier — LD 8·74+47 — 214 Roble-*1048*
Logan, William Archie — San Diego — Law14·117+100 — PhiDel.Thet.-*1334*
[4]Lomax, Marian — Broken Bow, Neb. — Sch. Ed. gr. — 659 Middlefield-p
A.B., Stanford, 1922
Lombard, G. Porter — Yakima, Wn. — Law 126+5 — PhiGammaDelta-*1324*
Londahl, Cyrus Ausgar — San Francisco — Law 118+15 — 34 Sequoia

Long, Eldon Addington A.B., Stanford, 1924	San Francisco	M.E. gr.	120 Toyon-*1105*
[5]Long, Harold Boyd	Norcatur, Kans.	Law 45·68+37	437 Kipling-p
Long, Hubert Edward A.B., Stanford, 1923	Palo Alto	Med. gr.	365 Forest-p
[4]Long, Kathleen B.S., Colorado Agricultural, 1917	Palo Alto	Educ. gr.	437 Kipling-p
Long, Merrill Edward	Sacramento	LD 49–18	Phi Gamma Delta-*1324*
[4]Long, Mildred A.B., Colorado, 1916	Pomona	Cl. Lit. gr.	Burlingame-b
Longyear, Richard Patten	Altadena	LD 35–5	210 Encina-*564*
Loomis, Francis Butler, Jr.	Burlingame	LD 67·83+52	Burlingame-b
[1]Loomis, Frederick Claxton	Pasadena	Econ. 6·175+46	320 Encina
[5]Loose, Warren Dean A.B., California, 1922	Provo, U.	Law gr.	Phi Kappa Psi-*1333*
Loper, Margaret	Fresno	Engl. 44·85–17	Alpha Phi
[4]Lopin, Anna Mildred A.B., Stanford, 1922	Sunnyvale	Chem. gr.	100 Roble
[5]Lorraine, Laura May	Palo Alto	Span. 124+161	460 Homer-p
[4]Loskamp, Alvin Powell B.S., Syracuse, 1921.	Los Angeles	Geol. gr.	San Juan, sj
Lothrop, Marcus A.B., Stanford, 1924	San Bernardino	M.E. 9·177+41	26 Sequoia-*32*
Love, Mary Craven	Riverside	Math. 134+89	163 Roble-*1104*
Lovekin, Charlotte	Riverside	LD 46+49	165 Roble
[1]Lovekin, Marion Roads	Stanford Univ.	LD 70·28+28	281 Embarcadero-p
[1]Lovekin, Osgood Stevens A.B., Stanford, 1924	Riverside	Chem.111·73+127	281Embarc'do-p
Lovelace, Manuel Burr	Dinuba	LD 84+17	Zeta Psi-*B*
Loveless, Joseph E.	Johnson City,N.Y.	Econ. 174+179	40 Sequoia-*944*
Lowers,Thomas Huston, Jr.	Los Angeles	LD 38+13	244 Encina
[12]Lucas, Alfred Francis	Santa Rosa	LD 46–17	Kappa Alpha
[23]Luce, Erma	San Francisco	LD‡ 26–14	KappaAlphaTheta-*336*
Luckhardt, Charles Edward	San Jose	Law 45·89+24	298 S. 12th, SJ-sj
Ludeke, Frederic Sebastian A.B., Stanford, 1924	Shandon	Law 201+123	258 Toyon-*732*
[234]Lund, Gage	Bozeman, Mont.	Geol. 98·74+39	57 Sequoia
Lundberg,Alice Evelyn	SaltLakeCity,U.	Hist. ‡ 59–21	Alpha Omicron Pi
[1]Lundberg, Karl Wesley A.B., Dartmouth, 1923	Rockford, Ill.	Econ. gr.	25 Salvatierra
Lundborg, Louis Billings	Billings,Mont.	LD 41+76	208 Encina
Lundquist, Dell Theodore A.B., Stanford, 1922	Middletown	Med. gr.	1226 Masonic, SF-sf

[5]Lusignan, Harry Richard Stockton Zool. 131+26 57 Sequoia-*876*
[1]Lusk,George Everett Avalon,Catalina Is. Econ. 119·61+6 University Hotel
A.B., Stanford, 1924
[34]Luster, Edmund Clark San Francisco LD 9–5 141 Encina
Lyne, Walter C., Jr. Salt Lake City, U. LD 95+10 Phi Sigma Kappa-*538*
Lynn, Harold Frederic Palo Alto Geol. gr. 181 Tasso-p
A.B., Stanford, 1924
[12]Lyon, Barbara Burlingame LD 70+75 Sigma Kappa-*1327*
[12]Lyon, Lucile Burlingame LD 30+53 210 Roble
[1]Lyons, Leon George Athens, Greece Rom. L. 1215 Emerson-p
Lysaght, George William San Francisco Econ.27·154+235 238Branner-*1046*
A.B., Stanford, 1924
Lytel, Harvey Maxwell Tulsa, Okla. LD sp. 80–5 Delta Chi-*1304*
Macabee, Lloyd Cedric Hayward LD 47–19 55Encina-*1239*
[1]McAdams, Nettie F. Sweetwater, Tex. Engl. gr. 660 Waverley-p
A.B., California, 1922
McAllister,Charles Hanley SanFrancisco LD 68+21 Kappa Sigma-*1326*
McAnear, Anna Sacramento LD 89+31 Gamma Phi Beta-*1337*
[1]Macaya, Alfonso San Jose, Costa Rica LD 25–8 36 Sequoia
[1]Macaya, Juan José San Jose, Costa Rica LD 27+17 66 Sequoia
[1]Macaya,Roman F. San Jose, Costa Rica LD 19–5 66 Sequoia
McBride, Rexford W. Stanford Univ. Med. gr. 1915 Laguna, SF-sf
A.B., Stanford, 1923
[1]McBride, Ruth Adella Berkeley Law 97·60+28 Gamma Phi Beta
McBurney, Raymond Dean Los Angeles Med. gr. 243 Clay, SF-sf
A.B., Stanford, 1924
McCaffery, B. Emmet Portland, Ore. Law 186+152 228 Branner-*1090*
A.B., Stanford, 1924
McCahan,Kathryn Cochran Los Angeles Hist. 109+52 Alpha Phi-*1387*
[1]McCall, Elizabeth Fluhrer Pixley LD 43+68 353 Roble
McCallister,Charles Harold Long Beach Pre-Med. 9·137+79 PhiK.Psi-*1333*
[5]McCallum, Robert Santa Clara LD sp. 31–14 Mountain View
McCandless, William W. Inglewood Econ. 127–2 Chi Psi-*588*
[4]McCann, Susane Evans Berkeley LD ‡ 202 Roble
McCanse, Mabel Letitia Santa Rosa Hist. gr. 249 Roble-*733*
A.B., Stanford, 1924
McCartney, James Stephen Alturas LD 43+1 205 Encina
McCarty, Donald Walker San Francisco LD 45+48 227 Encina
[34]McCarty, Honora K. Stanberry, Mo. Med. gr. 1225 Byron-p
A.B., Stanford, 1923
[5]McCarty, Mary Rita Stanberry, Mo. Econ. 34·130+68 1214 Byron
MacCasland, Stanford Hollywood LD 51+10 352 Encina-*994*
[12]McCauley, Dallas Ramsey Los Angeles LD 47·76+28 Phi Kappa Sigma

[23]McClanahan, Chasten N.	Nevada, Mo.	Chem. ‡ 26+1	1121 Bryant-p
McCleave, Kathryn Eloise	Berkeley	Econ. 80·82+48	Gam.PhiBeta-*1337*
McCleave, Thomas Crooke	Berkeley	LD 90+73	Delta Upsilon
McClellan, Thomas Lane	Glendale	LD 45+0	347 Encina
McClelland, John Mill A.B., Stanford, 1924	Cincinnati, O.	Fr. gr.	Box 5, mp
McClinton, Ralph Edwin	Burlingame	Law 151+78	1201 Cabrillo, B-b
McClure, Roy Armand	San Bernardino	LD 42+51	416 Encina-*585*
[234]McClurg, James Alan	Piedmont	LD 16–12	302 Encina
[12]MacColl, Douglas Roy B.S., California, 1914	San Francisco	Med. gr.	1600 Vallejo, SF-sf
McColloch, Leland Jordan	Los Angeles	LD 44+17	202 Encina
McCombie,Harold Edward A.B., Stanford, 1922	SanAndreas	Law gr.	315 Union
McConnel, Frederic Jordan A.B., Stanford, 1922	Menlo Park	C.E. gr.	Box 115, RFD, mp
[5]McCook, Rupert Francis	Long Beach	Law 86+74	Alpha Sigma Phi
[5]McCord, Floyd Marion	Hayward	Pre-Med. ‡ 44+2	636 Webster-p
[4]McCord, Glenn Alvin A.B., Phillips, 1924	Cherokee, Okla.	Hist. gr.	925 Waverley-p
McCormack, James Edward	Pasadena	LD 37+4	405 Encina-*622*
McCormick, Henry	Alameda	LD 41–4	329 Encina-*502*
[34]McCormick, Lewis M.	Spokane, Wn.	Phyl. 92·16+7	117 Kellogg-p
McCracken, Margaret E.	Los Angeles	LD 48+26	242 Roble
McCray, Alan Archer	Hollywood	LD 46+23	310 Encina
McCrea, Francis Randolph A.B., Stanford, 1922	Long Beach	Med. gr.	2436 Clay, SF-sf
McCready, John Donald A.B., Stanford, 1924	Redlands	Econ. 183+53	ThetaDeltaChi-*1331*
[12]McCue, Gerald Everett	Colusa	Chem. 102–20	28 Sequoia-*516*
McCullough, George Burns	Reno, Nev.	LD 46+33	250 Encina
[4]McCullough, Margery S. A.B., Mills, 1923	Los Angeles	Bact. gr.	315 Melville-p
[1]McCullough, Ronald	Springdale, Alta.	LD ‡ 16+22	451 Encina
[4]McCully, Catherine S.	Los Angeles	LD ‡	318 Roble
[4]McCully, Leona Hadley A.B., Indiana, 1905	Palo Alto	Educ. gr.	1035 Bryant-p
[5]McDermid, Finlay Angus	Palo Alto	Engl.15·115+157	603Middlefield-p
McDermont, Gilbert Roy	Fullerton	LD 93+29	SigmaAlphaEps.-*1305*
McDermott, John Carson	Los Angeles	LD 48+72	323 Encina
MacDonald, Frank Allan A.B., Stanford, 1921	San Francisco	Med. gr.	2202 Calif., SF-sf
[234]McDonald,Howard Austin	Chicago, Ill.	Geol. 118·83+23	1715 Waverley

McDonald, Juillard — Santa Rosa — LD 119+46 — Delta Kappa Epsilon
[4]McDonald, Katherine Ring — Alhambra — Econ. ‡ — 305 Roble
McDonald, Robert Emmett — San Francisco — Min. gr. — Sigma Chi
A.B., Stanford, 1924
[1]McDonald, Thomas E. — Roganville, Tex. — Law gr. — 411 Lytton-p
A.B., Stanford, 1922, J.D., 1924
McDougall, James Webster — San Francisco — LD 40–20 — *329 Encina-1042*
[12]McDougall, Kenneth Raymond — Palo Alto — LD 73+133 — Alpha Kappa Lambda
McDowell, Edgar Allen — Stanford Univ. — LD 9·81+144 — Los Altos-*131*
McDowell, Margaret Deering — Ashland, O. — LD 90+131 — KappaKappaGam.*1354*
Mace, John Lyndon — San Francisco — Law 180+118 — Zeta Psi-*B*
A.B., Stanford, 1924
Mace, Marion Lewis — San Francisco — LD 39–5 — 353 Roble
[4]McElderry, Mildred Jay — Des Moines, Ia. — Educ. ‡ — 270 Kellogg-p
[4]McElligott, Merian E. — S. Virginia, Minn. — Hist. 119+19 — 238 Roble-*662*
McGann, Basil Louis — Los Angeles — LD 97+67 — PhiKappaSigma-*1306*
McGettigan, Carroll Charles — S. Francisco — LD 87+20 — Delta Tau Delta
[1]McGinnis, James Joseph — San Francisco — Pre-Med. ‡ 3–7 — 396 Guer'o, SF-sf
McGough, Ethel — San Bernardino — LD 73+52 — 177 Roble
MacGovern, Sara Gwendolyn — Vallejo — Engl. gr. — 252 Roble
A.B., Stanford, 1924
[5]McGrath, Morgan James — Palo Alto — Econ. 164+23 — 567 Forest-p
McGuinness, John Edward — San Francisco — Pre-Clin. 135·51+42 — 559 Cowper-p
A.B., Stanford, 1924
McHenry, Merl Langdon — Alameda — Law 78·76+92 — Zeta Psi-*B*
McHose, John Cresco — Ashland, Ohio — Law 165+112 — 219 Encina-*1334*
[3]McInnes, Chester M. — Hollywood — LD 16+16 — 322 Encina
McInnes, Robert Alexander — Oxnard — LD 39+5 — 249 Encina
McInnes, Thomas Flournoy — Oxnard — LD 42+10 — 249 Encina
[4]McInnis, William Carr — San Francisco — Sch. Ed. gr. — 833 Lincoln-p
A.B., Stanford, 1920
[4]McIntire, Genevieve Tully — Princeton — Engl. gr. — 328 Roble
A.B., Stanford, 1911
[12]McIntosh, F. Russell — El Paso, Tex. — Min. 184+142 — PhiKap.Sigma-*1306*
A.B., Stanford, 1924
Macintosh, Richard R. — Santa Monica — M.E. 163+1 — Sigma Nu-*1385*
[12]McIntyre, Glenn H. — Santa Clara — Chem. 187+102 — AlphaKappaLamb.
A.B., Stanford, 1924
Mack, Charles Edward — Pasadena — LD 43+16 — 336 Encina
Mack, Henry Clayton — Bakersfield — Law 185+152 — Delta Chi-*1304*
A.B., Stanford, 1924
[134]Mack, John Erick — Pasadena — LD 74+48 — Phi Kappa Psi-*1333*
[1]MacKamey, Rhodus — Palo Alto — LD 43–9 — 324 Emerson-p

McKay, Donald Cope — Salt Lake City,U. — Hist. 110+143 — 449 Encina-*646*
MacKay, Eaton M. — San Francisco — Med. gr. *2307* — Sacramento, SF-sf
A.B., California, 1921
[1]McKay, John James — San Francisco — LD ‡ 30–28 — *22* Elgin Park, SF-sf
[12]MacKay, Lois Lockard — San Francisco — Hyg. gr. *2307* — Sacramento, SF-sf
A.B., Vassar, 1918; A.M., California, 1922
McKechnie, Frank — Berkeley — Span. 119+131 — 333 Lincoln-p
[12]McKee, Donald — Palo Alto — C.E. 75·111+67 — 243 Everett-p
A.B., Stanford, 1924
[12]McKee, Donald Hooper — Woodside — LD 14–25 — 444 Encina
[12]McKee, Dorothy Rolph — Palo Alto — Chem. 103·77+124 — 243 Everett-p
A.B., Stanford, 1924
[13]McKenna, Seth Louis — Lemoore — LD 28+4 — 205 Encina
McKenney,Arthur C., Jr. — San Francisco — Med. gr. — 1020 Union, SF-sf
A.B., Stanford, 1922
McKenney, Philip Wash — Oakland — Pre-Clin. 193+76 — 132 Toyon-*605*
A.B., Stanford, 1924
[4]McKenzie, Annie — Lodi — LD ‡ — 115 Everett-p
Mackersie, Gerald Edward — Dinuba — LD 21–16 — *122* Encina
Mackey, Margaret Gilbert — Los Angeles — Fr. 180+131 — GammaPhiBeta-*1337*
A.B., Stanford, 1924
[4]Mackey, Winnie Mae — Huntington Beach — LD ‡ — *250* Roble
McKibbin, Mabel Ferris — Portland,Ore. — Ed.G.A.*23*·142+182 — Alp.Phi-*1386*
[34]McKinley, Hugh Arthur — Taft — Pre-Med. gr. — *321* Union
A.B., Wabash, 1914
[4]McKinley, Lucius Dean — Guerneville — Educ. gr. — *333* Kipling-p
B.L., California, 1901
[4]McKinley, Ruth Gregg — Los Gatos — Sch. Ed. gr. — *333* Kipling-p
A.B., Stanford, 1906
McKinney, John W. — Roswell, N.M. — C.E. 182+112 — *228* Toyon-*1072*
A.B., Stanford, 1924
[1]MacKinnon, Hugh Sanborn — Berkeley — Law gr. — 287 Union
A.B., Stanford, 1922, J.D., 1924
[4]McKlveen,Margaret Ann — Denver, Colo. — Sch. Ed. gr. — 302 Roble
A.B., Denver, 1920
[5]McLaughlin, Evlyn — San Francisco — Hist.87·71+8 — Kap.Alp.Theta-*1336*
[4]McLaughlin, Katherine L. — Los Angeles — Educ. gr. — Kingscote
B.S., Chicago, 1913, A.M., 1917
McLean, Charles A., Jr. — Portland, Ore. — LD *29–27* — 45 Encina
McLean, Corbett — Portland, Ore. — LD 44+50 — 15 Encina-*596*
McLean, William Ellis — Portland, Ore. — M.E. 144+8 — *325* Alma-p
[5]McLellan, Roderick Irving — Burlingame — LD 98+56 — Phi Sigma Kappa-*538*
McLeod, Gertrude Eloise — San Francisco — Fr. 138+131 — Delta Gamma-*1366*
McLeod, Gladys Marian — San Francisco — LD 74+*32* — Delta Gamma-*1366*

McManigal, Holden Edgar — Pasadena — LD 36–30 — 251 Encina
[4]McManis, John T. — Fullerton — Hist. gr. — -3
A.B., Stanford, 1897, A.M., 1902
[1]MacMillan, H. Gordon — SaltLakeCity,U. — LD 10–22 — Phi Kappa Psi
[3]McMillin, Harvey Clay — Stanford Univ. — Zool. gr. — 60 Sequoia
B.S., Washington, 1923
[12]McMullen, Richard K. — Dalhart, Tex. — LD 57+18 — Alpha Delta Phi-*J*
MacNair, Helen D. — Houghton, Mich. — Math. 82·53+61 — 381 Roble
McNamee, Frank, Jr. — Los Angeles — LD 45+35 — 245 Encina
[14]McNary, Thomas Benton — Los Angeles — Econ.-Law ‡ 11–9 — *727* Addison-p
McNaught, Robert C. — San Francisco — LD 50+53 — *224* Encina
[23]McNaught, William K. — San Francisco — LD 25–2 — 106 Encina
[5]McNichols, Charles L. — Los Angeles — Engl. 121+100 — 424 Seneca-p
McOmie, Margaret Edith — Los Alamitos — LD 47+30 — 357 Roble
[5]McPherson, Mahlon Daniel — Santa Cruz — Pre-Med. 51·89+74 — 120 Toyon-*694*
MacQuarrie, Thomas William — Stan.Univ. — Educ. gr. — College Terrace-*1271*
A.B., Stanford, 1922, A.M., 1923
McQuistion, Lois Lovina — Los Angeles — LD 49·45+37 — 244 Roble
MacRae, Richard Loomis — Los Angeles — Law 98+16 — DeltaUpsilon-*1353*
[23]McVey, Allyn — Coronado — LD 37–17 — 33 Sequoia
[5]McVey, Archibald Peet — Stanford Univ. — Engl. 156+11 — 11 Salvatierra-*1193*
McVey, Catherine L. — Stanford Univ. — LD 79+57 — 11 Salvatierra-*1193*
[4]McVey, J. Philip — Flagstaff, Ariz. — Educ. gr. — 407 Stanford, M-m
A.B., Colorado State Teachers' College, 1923
[2]Madden, Arthur L. — Palo Alto — LD sp. 11–5 — 911 Bryant-p
Magarian, Gasper H. — Fresno — Law gr. — 334 Union-*1045*
A.B., Stanford, 1923
Magee, Tarance Smith — Fresno — Law ‡ 39–4 — 107 Branner
[4]Magruder, Augustin F. — Starkville, Miss. — Engl. gr. — 235 Toyon
B.S., Virginia, 1923
[1]Mahan, Archie Gordon — Venice — LD 38–9 — Kappa Alpha
[5]Mahoney, George Campbell — Berkeley — Min. ‡ 31+3 — 314 Union-*30*
[12]Mahoney, Gilbert M. — Nampa, Ida. — LD 88+8 — 61 Sequoia-*687*
Mahoney, Joseph Boren — Dallas, Tex. — LD3·87+6 — 137 Branner
Maillot, Elmer Ellsworth — Alameda — Min. gr. — Theta Xi-*1355*
A.B., Stanford, 1923
Main, Norman Francis T. — Hemet — Law gr. — 309 Union-*1269*
A.B., Missouri, 1920; J.D., Stanford, 1924
[5]Maine, George Goodell — San Jose — Educ. gr. — 330 N. 3rd, SJ-sj
A.B., Stanford, 1924
[12]Malaby, John Richard — Palo Alto — Engl. 21·156+72 — 230 Kellogg-p
A.B., Stanford, 1924
[5]Malinowsky, Joyce — Patterson — Hist. 163+49 — 1102 Lincoln, M-m

[12]Mallory, Dora	Fresno	Hist. 158+57	306 Roble-*1127*
Malloway, Robert William	Sites	LD ‡ 28–26	23 Encina
Manchee, Marie	Santa Barbara	LD 49+63	320 Roble
Manchester, Francis Byers	So. Pasadena	LD 70·39+18	Delta Upsilon-*643*
Mancini, John Adolph	Hayward	LD 97+134	142 Toyon-*I*
[12]Mangin, Joseph Neville	Burlingame	Pre-Med. 18–29	1215 Bellevue, B-b
Mann, Arthur Newton	Anaheim	LD 42+13	118 Encina
Mannoccir, F. David, II A.B., Stanford, 1924	Hollywood	Law 180+18	Beta Theta Pi-*1335*
Mannon, James Bramlet	Ukiah	LD 102+161	245 Toyon
[4]Manny, Helen M. B.S., Knox, 1910	Portland, Ore.	Sch. Ed. gr.	103 Roble
Mansfeldt, John Harold A.B., Stanford, 1923	San Francisco	Med. gr.	2215 Buchanan, SF-sf
Marble, John Maclaren	So. Pasadena	Pol. S. 141+89	Alpha Delta Phi-*J*
[4]Marburg, Helen A.B., London, 1914	Montclair, N.J.	Fr. gr.	Menlo Heights-*1311*
[1]March, Harry Alvin	Bowling Green, O.	Fr. ‡ 16–5	251 Hawthorne-p
Mariette, Edgar Lionel	Palo Alto	LD 40+3	Alpha Tau Omega
[4]Markley, Clinton London A.B., Miami, 1909	Georgetown, O.	Educ. gr.	151 Kellogg-p
Marks, George Albert	Eagle Rock	Econ. 132+10	Delta Chi-*1304*
Marks, Graham Wallace	Spokane, Wn.	LD 108+113	305 Branner
Marlow, Arthur Ashley	San Diego	Pre-Med. 143+58	Del. Tau D.-*1363*
[12]Marquis, Cecil Isaac	Twin Falls, Ida.	Econ. 43·109+29	141 Toyon-*I*
Marsh, Chester A.B., Stanford, 1922	San Francisco	Med. gr.	2215 Buchanan, SF-sf
Marsh, James Adolphis A.B., Stanford, 1924	Salt Lake City, U.	Geol. 124·70+0	127 Cowper-p
[234]Marsh, Loveridge Warren	Brawley	LD 52–4	248 Toyon
[1]Marshall, Donald Carlyon	Sunnyvale	Pre-Med. 135+224	Sunnyvale-s
[3]Marshall, Mary Rachel	Chicago, Ill.	Econ. ‡ 15+22	117 Roble
Marshall, Oscar Chauncey A.B., Stanford, 1922	San Francisco	Med. gr.	2319 Webster, SF-sf
Martin, Glenn Chudley	Spokane, Wn.	LD 47+2	19 Encina
Martin, Henry Adam	Watsonville	Econ. 126+49	140 Toyon-*1177*
[34]Martin, Horace Edmund	Los Angeles	LD 84–8	Chi Psi-*588*
Martin, Howard Wilson	Corcoran	LD 95+51	202 Toyon
Martin, Kenneth George	Watsonville	LD 30·60+8	140 Toyon-*1177*
[5]Martin, Vincent Lyman	Los Angeles	LD 103+5	31 Sequoia-*1150*
Martins, Samuel M.	San Bernardino	Zool. 101·49+41	36 Sequoia
[4]Marty, Pearl Ann Ph.B., Buchtel College, 1903	Cleveland, O.	Engl. gr.	Madroño

[4]Marum, Pauline Gertrude — Menlo Park — Cl. Lit. gr. — Menlo Park-mp
A.B., College of the Sacred Heart, 1923

Marvin, Stanley — Oakland — LD 5·92+77 — 56 Sequoia-*861*

Marx, Barbara — Palo Alto — LD 45+41 — 315 Roble

[1]Mason, Georgia Steirly — Watsonville — LD 99·60+13 — Kappa Alpha Theta

Mason, Marshall Irwin — Palo Alto — Pre-Med. 136+91 — Encina ave.-p

Mason, Rowena Steirly — Watsonville — LD 23·42+25 — Kap.Alp.Theta-*1336*

[4]Masson, Adele Anne — San Jose — Hist. 8·53+30 — Pebble Beach-pb

Masters, Alfred Richard — Portland, Ore. — Geol. 197+70 — 319 Encina-*I*
A.B., Stanford, 1924

[12]Mater, Daniel Harrison — Palo Alto — LD 18–18 — 31 Encina

[5]Mather, William Max — Spokane,Wn. — Econ. 39·96+82 — 506 Encina-*101*

Mathes, Mary E. — Palo Alto — Med. gr. — 1402 Emerson-p
A.B., Oregon, 1920

Mathews, Asa A. Lee — SaltLakeCity,U. — Geol. gr. — 245 Cowper-p
A.B., Iowa State Teachers' College, 1907; A.M., Stanford, 1924

Mathews,Homer Hamilton — Pullman,Wn. — Law gr. — SigmaAlphaEpsilon-*1305*
B.S., State College of Washington, 1918; J.D., Stanford, 1924

Mathewson, Carleton — Fresno — Med. gr. — 2215 Buchanan, SF-sf
A.B., Stanford, 1923

[4]Mathis, Olive Mae — Fresno — Sch. Ed. gr. — 258 Roble
A.B., Fresno State Teachers' College, 1923

Matson, Theodore Malvin — Mitchell,Neb. — M.E. gr. — 319 Union-*945*
A.B., Stanford, 1923

Matthay,Ferdinand Lowell — Los Angeles — LD 75+58 — Zeta Psi-*697*

Maupin,James Lawrence, Jr. — Fresno — Med. gr. — 735 Taylor, SF-sf
A.B., California, 1921

[1]Mauser, George Kern — Hollywood — LD — 236 Encina

[12]Maust, Orpha — Garden City, Kans. — Psych. gr. — Madroño-*932*
B.S., Kansas Agricultural, 1922

Maw, Charles Edward — Provo, U. — Chem.gr. — 1112Univ.,CT-Box721,p
A.B., Stanford, 1903; M.S., Chicago, 1913; Ph.D., Stanford, 1924

[1]May, James Alfred — Rockland, Ida. — LD 15–7 — 233 Encina

May, J. Earle — Los Angeles — Econ. 149+10 — 9 Sequoia-*574*

[13]Mayans, Joseph E. — Los Angeles — Chem. gr. — 542 Cowper-p
A.B., Institute Campechano, 1920

[3]Mayer, Barbara Anne — San Francisco — LD 14+17 — 176 Roble

[12]Mayer, Eugene J. — Niles Center, Ill. — Hist. 127·29+11 — 53 Sequoia

[12]Maynard, Barron Homer — Los Angeles — LD 14·68–22 — 14 Sequoia

[124]Maytin, Joseph Gregory — Berkeley — Pol. S. gr. — 223 Union-*56*
A.B., California, 1921, A.M., 1922

[12]Maze, Jason Corrigan — PoplarBluff,Mo. — LD ‡ 23–3 — 430 Kingsley-p

Mead, Ellen Orpha — Hollywood — Hist. 97·46+16 — 173 Roble

Meadowcroft, Allan James	Modesto	LD 98+167	520 Encina
Means, Lucy Woodbridge	Burlingame	Germ. 42·87+19	Pi Beta Phi-*1332*
[1]Medveczky, Stephen A.	San Francisco	Pre-Med. ‡	66 Geary, SF-sf
[5]Meehan, William John	Redwood City	LD sp. 10·90+12	Box 636, p
Meeker, Warren Leslie	Glendale	LD ‡ 32–18	Phi Kap. Sigma-*1306*
Meeks, Thomas Sidney	Hollywood	LD 42+38	351 Encina
Meiklejohn, David C.	Baldwin Park	LD 82+24	113 Toyon-*1*
Melkonian, Leon A.B., Stanford, 1924	Fresno	Med. gr.	2515 Webster, SF-sf
[12]Mendenhall, Lee Otey	Piedmont	LD 41+4	Sigma Nu-*1385*
[2]Mendenhall, Samuel Hardin	Long Beach	Econ. 144–11	110 Branner
Menzies, John MacIntosh	San Rafael	LD 39+9	125 Encina-*661*
Mercer, Andrew A.B., Stanford, 1923	San Luis Obispo	Med. gr.	521 Everett-p
[4]Mercer, George Edwin A.B., Washburn, 1893; B.S., California, 1913	Palo Alto	Educ. gr.	835 Waverley-p
[12]Mermod, Ruth Camille A.B., Mills, 1922	Winters	Med. gr.	Madroño-*913*
[5]Merrill, Anna Frances	SaltLakeCity,U.	Fr. 48·123+55	Delta Gamma
[12]Merrill, Charles White A.B., Stanford, 1922, Engineer, 1924	Stanford Univ.	Min. gr.	219 Toyon-*1188*
Merrill, Ernest Nathaniel	Redwood City	M.E. 155+100	Theta Xi-*1355*
[234]Merrill, Raymond M.	Denver, Colo.	Law 90·25+2	302 Union
Merritt, Russell Staples	Santa Rosa	Econ. 45·123+20	54 Sequoia
Mertz, Vieth Theodore A.B., Stanford, 1924	Evanston, Ill.	Econ. 48·136+162	BetaThe.Pi-*1335*
[2]Meschakow, Paul Stephen	SanFrancisco	LD ‡ 6–14	139 Encina
Meservey,Douglas Wyman	Kearney,Neb.	LD 47·40+24	216 Encina
Meskimons, Sara Hervey	Merced	Chem. 12·125+147	115 Roble-*722*
Metzgar, James Hustead	Santa Ana	LD ‡ 42–16	Theta Delta Chi-*1331*
[4]Metzler, David Russell A.B., Stanford, 1919	Eureka	Educ. gr.	515 Everett-p
Meyer, Dorothy Farrar	Oakdale	Hist. 33·103+1	Gam.PhiBeta-*1337*
[12]Meyer, Norton	San Francisco	LD 110–8	212 Toyon-*545*
[23]Meyer, Philip Naramore	Richmond	LD 89+1	Delta Tau Delta-*1363*
Meyer, William Wilfred	Sebastopol	LD 76+57	105 Branner-*545*
Meyers, Philip Thomas	Bakersfield	LD 72+38	Delta Chi-*1304*
[12]Middleton, Joel Dugger	Phoenix,Ariz.	Hist. 108+7	Kappa Sigma
[5]Millar, Henry Lloyd	Palo Alto	Min. 135·74+24	424 Seneca-p
[4]Miller, Albert William B.S., California, 1908, M.S., 1916	Fresno	Educ. gr.	8 Union
Miller, Alfred Amasa A.B., Stanford, 1924	Seattle, Wn.	Law 129·49+58	327 Union

[4]Miller, Anna May	So. Heart, N.D.	LD ‡	Roble
[5]Miller, Arthur George	Whittier	Law 8·141+65	10 Union-*652*
Miller, Barbara	Los Angeles	Engl.-Jn.100·85+68	Del.Gam.-*1366*
A.B., Stanford, 1924			
[4]Miller, Barbara Dina	Mountain View	LD ‡	Mountain View-mv
Miller, Bernice E.	San Francisco	LD 44–3	239 Roble
[3]Miller, Charles Emerson	Portland,Ore.	E.E. gr.	Stanford-*877*
A.B., Stanford, 1922, Engineer, 1923			
[23]Miller, Donald Howard	San Leandro	LD 48–48	AlphaKappaLamb.-*658*
[23]Miller, Eugene Elliott	Stanford Univ.	C.E. gr.	313 Union
A.B., Stanford, 1923			
[12]Miller, Fred Allen	Santa Monica	LD 57–3	AlphaKappaLmbda-*658*
Miller, Harold Anderson	Aberdeen, Wn.	Econ. 102+4	Kappa Sigma-*1326*
Miller, Harold Eugene	Mayfield	LD 81–12	170Oxford,M-Box764,p
Miller, Holmes Clevenger	Palo Alto	M.E. 182+147	1018ForestCourt-p
A.B., Stanford, 1924			
[5]Miller, John Johnston, Jr.	San Jose	Pre-Med.90·42+41	91EStJas,SJ-sj
[12]Miller, Kingsley Roy	Beloit, Kans.	Chem. 101·79+50	123 Emerson-p
A.B., Stanford, 1924			
Miller, Louis Gardner	Marysville	LD 38+21	130 Encina-*1232*
Miller, Lowell Morrison	Palo Alto	Law 151+118	611 Bryant-p
Miller,MargaretRebecca	SantaFe,N.M.	LD 67+12	314 Roble-*1250*
[4]Miller, Maxine Espy	Los Angeles	Ed. G.A. ‡	Roble
Miller, Philip Joseph	Visalia	Pre-Clin. 135·51+26	333 Union
A.B., Stanford, 1924			
Miller, Roscoe Riehm	Tiffin, O.	LD 55·95+53	Phi Sigma Kap.-*538*
[234]Miller, Samuel	Dorchester, Mass.	LD 9·30+36	301 Encina
Miller, Theodore F.	Clarkdale, Ariz.	LD 75+62	104 Branner
[12]Millerd, Frederic Austin	Long Beach	Law gr.	212 Union-*522*
A.B., Grinnell, 1920; B.S., California, 1921; J.D., Stanford, 1924			
Millerd, Lawrence Edward	Long Beach	C.E. gr.	212 Union-*522*
A.B., Grinnell, 1920			
[3]Milliken,Margaret F.	Canandaigua,N.Y.	Econ. gr.	Univ. Park-*1087*
A.B., Vassar, 1922			
[124]Milliken, Sheldon Spencer	Pasadena	Law 117+29	Alp.Kap.Lamb.-*658*
[3]Mills, Dwight William	San Jose	Pol. Sci. 45–40	97 R.C., SJ-sj
[12]Millspaugh, H. Sloane	Spokane, Wn.	Law gr.	312 Union *696*
A.B., Stanford, 1923			
Minard, Claude Russell	Fresno	Law gr.	307 Union-*545*
A.B., Stanford, 1923			
[124]Miner, Nagel Thompson	Santa Cruz	Law 111+82	475 Tennyson-p
Minner, Victor Julian	Carbondale, Ill.	Min. 130+212	331 Encina-*1086*
[4]Minor, Ruby	San Diego	Educ. gr.	Lytton Apt.-p
B.S., Columbia, 1921			

[5]Miron, Carlos Albert, Jr. San Francisco LD 70+40 238 Toyon
[12]Mirrielees, Lucia B. Stanford Univ. Educ. gr. 4 Lasuen-*926*
A.B., Stanford, 1909
Mitchell, George Rankin San Diego Engl.gr. 421Oberlin,Mayfield-*980*
A.B., Stanford, 1923
[4]Mitchell, Harold G. Salt Lake City, U. Geol. gr. San Juan-sj
B.S., Utah, 1923
Mitchell, Herbert Houston Salina, Kans. Econ. 135·48+58 10 Sequoia-*1062*
A.B., Stanford, 1924
Mitchell, Howard Lippert Berkeley LD 81+30 Encina Gym.-*1*
[1]Mitchell, Roberta Hasty San Jose Chem. 41·69+106 Pi Beta Phi
[5]Mitchell, Roma L. Los Angeles Span. 22·109+41 835 Cowper-p
[4]Mitchell, Willis A., Jr. Little Rock,Ark. Econ. ‡ Kappa Alpha
[4]Mixon, Hattie Mai Memphis, Tenn. LD ‡ 329 Roble
Mixon, Hugh Clarke Marianna, Ark. Econ.94·89+6 DeltaTauDelta-*1363*
A.B., Stanford, 1924
Mizota, George Shuichi Fukuoka, Japan Law 154+167 Japanese Club-*598*
[4]Mock, John M. Portland, Ore. Educ. gr. 41 Columbia, M
A.B., State College of Washington, 1923
Mode, Morris John Dinuba M.E. 137+77 233 Branner-*545*
Moe, Ophelia Los Angeles Sch. Ed. gr. Madroño-*855*
A.B., Occidental, 1922
Moe, Orion Garman Los Angeles M.E. 183+116 71 Sequoia-*855*
A.B., Stanford, 1924
[23]Moen, Arthur Joseph Zelzah M.E. ‡ 29+15 66 Sequoia
[4]Moffitt, Cecil P. Madera Educ. gr. 134 Toyon
B.S., Oregon Agricultural, 1913
[1]Moffitt, John Moore Los Angeles Chem. gr. 333 Union
A.B., Southern California, 1923
Mohr, Everett Kingsley San Francisco Educ. gr. 547 Encina
A.B., Stanford, 1923
[2]Moklofsky, Emil James San Mateo LD 10–30 Theta Xi
Monroe, Yoves Motaire Long Beach LD 113–9 233 Branner-*545*
[1]Montague, Robert Rutledge San Jose Chem. 20–42 67 S. 8th, SJ
[1]Montgomery, DeWitt, Jr. Visalia LD 37–10 176 Bryant-p
Montgomery, Katherine M. San Diego Engl. 135·45+14 310 Roble-*1337*
A.B., Stanford, 1924
Montgomery, Montel San Francisco LD 49+74 226 Encina
[12]Moody, Irwin Walter San Jose Min. gr. 53 S. 6th, SJ-sj
A.B., Stanford, 1924
Moody, Warren Glenn Fresno Econ. 135·50+37 314 Toyon-*554*
A.B., Stanford, 1924
Mooney, Theodore Davis St. Helena LD 84·68+25 827 Lincoln-p
[12]Moore, Arthur Stanford Univ. LD 135+5 PhiKappaSigma-*1306*

Moore, Caroline	Stockton	LD 47+70	336 Roble
Moore, Claude Wilkins A.B., Stanford, 1923	Proberta	Sch. Ed. gr.	136 Toyon
Moore, Francis Joseph	Zamboanga, P.I.	LD 44+43	125 Encina-*553*
Moore, Jack Beals A.B., Stanford, 1924	Fresno	Pre-Clin.100·88+113	334Wavrly.-p
[3]Moore, Jack Kuehn	Los Angeles	LD 15+5	326 Encina
[4]Moore, Josephine A.B., Chicago, 1919; A.M., Stanford, 1922	Chicago, Ill.	Fr. gr.	34 Lasuen
Morehead, Marjorie E. A.B., Stanford, 1924	Long Beach	Engl.-Jn. 132·48+32	200 Roble
[23]Moreland, Edward Philip	Burlingame	LD 26–6	1081 Encina
[12]Morelock, Geraldine T.	Honolulu, T.H.	Fr. ‡ 20+0	375 Roble
Moretti, Louis Ramon A.B., Stanford, 1923	Mill Valley	Geol. gr.	Theta Xi-*1355*
Morgan, Harold Gad	Los Angeles	LD 47·45+45	209 Encina-*1151*
[4]Mork, Donald James A.B., College of the Pacific, 1921	Mountain View	Econ. gr.	Box 295, Mv-mv
[23]Morrill, Clifton W.	Santa Rosa	LD 27+0	408 Encina
Morris, Cecil Martin A.B., Stanford, 1924	Billings, Mont.	Econ. 180+60	AlphaSig.Phi-*1357*
[23]Morris, Harold	Herrin, Ill.	Geol. 136+25	Box 593, p
Morrison, Abram Mitchell	Hollywood	LD 81–13	Phi Sigma Kappa-*538*
Morrison,Deming W.	Wheatland,Wyo.	LD 127+28	138 Toyon-*1147*
Morrison, Erwin Gorham	San Francisco	LD 77+5	Delta Tau Delta-*1363*
[5]Morrison, Marcus Fae	Stanford Univ.	Law 74·112–3	234 Union-*856*
[4]Morrison, May Helena A.B., Colorado, 1919	Portland, Ore.	Sch. Ed. gr.	321 Kipling-p
[1]Morrison, Robert R.	Palo Alto	LD 9–3	27 Encina ave.-p
[12]Mors, George Leander A.B., Stanford, 1924	Berkeley	M.E. 190+97	319 Union
Morton, Charles Villiers	Manila, P.I.	LD 43+3	125 Encina-*553*
Morton, Marcia Ellsworth	Los Angeles	LD 60+49	Pi Beta Phi-*1332*
Mortsolf, Kenneth J.	Eureka	LD 72+8	Delta Upsilon-*1353*
Moser, Bernadine	Lewiston, Ida.	Engl. 135·44–2	217 Roble-*1337*
[5]Mosher, Albert A.B., Stanford, 1923	Rawlins, Wyo.	Law gr.	SigmaAlphaEpsilon-*1305*
Mosher, Francis Wm., Jr.	San Francisco	LD 47+44	226 Encina
[4]Mosher, John A.	Pomona	LD 56·18+7	312 Union
[5]Moss, James Clayton	San Francisco	LD 48+9	429 Encina
[2]Mossman, Clarence Rufus	Antioch	LD 0–15	Encina
[234]Mossman, Ralph Westbrook	Antioch	LD 21–2	445 Encina
Motheral, John Grahame	Hanford	LD 80+90	AlphaTauOmega-*1384*

[5]Moule, Richard Harding	Palo Alto	LD 73+4	Kappa Sigma
[13]Mowers, Delbert Austin	Vacaville	LD 59+13	Kappa Alpha
Moy, Herbert Bing	Stanford Univ.	LD 25·43+18	County Road-*1055*
[1]Moyle, Lyman	Alpine, Utah	LD 15+3	233 Encina
Muhs, Fred	Berkeley	LD 94+114	225 Toyon
[5]Muir, James Creighton	Wilbur, Wn.	Engl.11·153+230	PhGamDel.-*1324*
Mulchay,Roland Bernard	Portland,Ore.	Min. 139+200	Theta Xi-*1355*
[1]Mulford, Oscar Wayne	Los Angeles	LD 70+0	Delta Chi
Muller, Dorothy	Oxnard	LD 110–4	Chi Omega
Muller, Edward Pierre	San Francisco	Econ. 130+13	214 Toyon-*503*
Mulligan, Wesley B.	Santa Barbara	LD ‡ 30+30	525 Channing-p
Mulryan, Henry A.B., Stanford, 1924	Beresford	Geol. gr.	Theta Chi-*1383*
Mumford, Patrick Foster A.B., Stanford, 1924	Menlo Park	M.E. 189+175	Menlo Park-mp
[4]Munce, Tillie Carolyn	Fresno	Educ. ‡	216 Roble
Munson, Spencer Munroe, Jr. A.B., Stanford, 1924	Pasadena	C.E. 95·97+105	56 Sequoia-*1191*
[12]Murata, Thomas Tomio	San Francisco	M.E. 142+140	Japanese Club-*598*
[5]Murdoch, Christine A.B., Stanford, 1923	Klamath Falls,Ore.	Law gr.	118 Roble-*835*
[4]Murphey, Carobel A.M., Southern California, 1923	Los Angeles	Educ. gr.	476 Forest-p
Murphey, Wm. Luther A.B., Arizona, 1923; J.D., Stanford, 1924	Tucson, Ariz.	Law gr.	303 Union-*1305*
Murphy, John Andrew	Salinas	LD 76–15	Phi Gamma Delta-*1324*
Murphy, John Matthew, Jr. A.B., Stanford, 1924	Petaluma	S.Biol-Med.105·101+19	72Seq.-*895*
[4]Murphy, May Belle	San Jose	Educ. 45·0+0	81 E. William,SJ-sj
Murphy, Paul John	Salida	LD 89–8	Delta Upsilon-*1353*
Murphy, Ramund Robert	San Francisco	Law 113+42	Sigma Nu-*1385*
[4]Murphy, Robert Ward	Burlingame	LD	329 Union
Murphy, Russell Nichols	Burlingame	LD 98+37	Sigma Chi
Murray, Francis Harold	San Francisco	LD 30–10	347 Encina
Murray, Lydia	Palo Alto	LD 45+64	1019 Bryant-p
[1]Murray, Oscar Raymond	Los Gatos	Econ. 5·23+27	264Saratoga,LG-lg
[1]Murray, Paul Chaney A.B., Stanford, 1924	Lodi	Geol. 21·178+82	Sigma Nu
[5]Murray, Robert Sinclair	Redwood City	Econ. 85+1	Box 326, rc
Musso, Ernest Francis	Bowman	LD 43+0	230 Encina
Musto, Kathleen Marie	San Francisco	LD 41+22	377 Roble
Muzzey, Isabelle Genevieve A.B., Stanford, 1924	Pasadena	Econ. 18·166+150	Serra H.-*1342*

Myers, Alice Elizabeth	Los Angeles	Span. 53·88+76	Delta Gamma
[12]Myers, Ralph Leo	Jackson	LD 53+24	535 Encina-*889*
Myers, Robert Pearce	Long Beach	Law 6·139+102	PhiKappaPsi-*1333*
[23]Nagle, Wesley Michael	El Paso, Tex.	LD 28+38	234 Encina
Natcher, Stanlus Z.	Los Angeles	LD 45+28	324 Encina-*701*
Nauman, J. Patrice	San Francisco	LD 83+43	Delta Gamma-*1336*
[4]Naylor, Ella Grace	Piedmont	Educ. 117·14+20	181 Roble
[12]Neer, Phil F.	Portland,Ore.	Law 180+7	Alpha Delta Phi-*J*
Neff, Harold Arthur	Palo Alto	LD 99+28	908 Boyce-p
Negus, William Nelson	Lompoc	LD 35–15	27 Encina-*1196*
Neiger, Ruel Raymond A.B., Stanford, 1924	Alhambra	Econ. 135·47+36	10 Sequoia-*1065*
[3]Neikirk, John Herchel	Palo Alto	LD 40–29	1357 Cowper-p
[1]Neill, William C., Jr.	Santa Monica	LD 100+4	Phi Kappa Sigma
Neisser, Edward	Venice	LD 62+8	208 Branner-*951*
[5]Nelson, Albert	Eureka	Law 156+116	221 Toyon
Nelson, Arnold Harvey	Clovis	Econ. 68·75+9	21 Sequoia
[4]Nelson, Edward Houston A.B., Arkansas, 1915	Ada, Okla.	Psych. gr.	407 Stanford
Nelson, Elmer John	Clovis	C.E. 162+114	Alp.TauOmega-*1384*
[4]Nelson, Eva	Turlock	LD sp.	178 Roble
Nelson, Helen Elizabeth A.B., Stanford, 1923	Culver City	Sch. Ed. gr.	Manzanita-*651*
Nelson, Helen Eugenia	San Jose	LD 4·86+105	247 Roble-*142*
[12]Nelson, Hillis Orval	Exeter	LD 29+9	44 Encina
[4]Nelson, Lena Mills	Palo Alto	LD ‡	659 Forest-p
[13]Nelson, Norman Ralph	Palo Alto	LD sp. 37–15	750 Channing-p
[4]Nelson, Peter Robert	Palo Alto	LD ‡	331 Lincoln-p
Nelson, Robert Hatch	JeffersonCity,Mo.	Min. 135·41+6	140 Branner
[4]Nelson, Walter Jennings	Boise, Ida.	Hist. ‡	San Juan
Nelson, William Kenneth A.B., Stanford, 1924	Santa Ana	Chem. 45·142+135	558 Encina-*211*
Nesbit, Reed Miller A.B., Stanford, 1921	San Francisco	Med. gr.	1920 Post, SF-sf
Nethercut, Ruth A. A.B., Stanford, 1919	Lake Geneva, Wis.	Med. gr.	2211 California, SF-sf
[4]Neugebauer, Edna Kellogg B.S., Colorado Agricultural, 1914	Clovis	Engl. gr.	Box 177, m
[5]Neuman, Adolph	Pasco, Wn.	Econ. 175+55	111 Toyon-*605*
[2]Neuman, Arthur A.B., Stanford, 1923	Turlock	Sch. Ed. gr.	Menlo Park-mp
Neuman, Herbert Henry	Turlock	C.E.‡35–2	Wrn.Schl.,MP-Bx772,p
Nevers, Ernest	Santa Rosa	LD 67+15	Kappa Alpha-*1356*

Neville, William Henry	Hollywood	LD 42+31	140 Encina-*924*
Nevins, Arthur Garth	Clovis	LD 87+40	32 Sequoia
Newbauer, Jerome Paul	San Francisco	Econ. 132+83	217 Branner-*1080*
[5]Newbrough, George F.	Galveston,Tex.	Engl. 117·53+28	Matadero ave.,M
Newcomer, Mary Adele A.B., Stanford, 1924	Phoenix,Ariz.	Sch. Ed. gr.	Chi Omega
Newhouse,Frederic Huntley	Hollywood	LD 45+36	351 Encina
Newill, Philip A.B., Stanford, 1924	Portland, Ore.	Engl. 6·175+129	8 Union-*L*
Newkirk, Dana Sheldon	Anaheim	LD 45–5	118 Encina-*1029*
[1]Newland, Alva Adams	Hollywood	LD 36–20	Kappa Sigma
Newland, Leroy Sublette	Palo Alto	LD 46+29	628 Middlefield-p
Newlin, Ruth Anne A.B., Stanford, 1924	Fresno	Chem. 196+222	112 Roble
[4]Newlin, Wallace Alfred M.S., California, 1911	Pasadena	Educ. gr.	529 Addison-p
Newlove, Martin Edgar	Santa Monica	LD 89+61	242 Toyon-*645*
Newman, Henry Wise	Fresno	LD 42+54	115 Encina-*882*
Newman, William, Jr. A.B., Stanford, 1921	Fresno	Med. gr.	220 Golden Gate, SF-sf
[3]Newmark, Richard Roth	Los Angeles	LD 11–2	444 Encina
[12]Newnan, Gladys A.B., Stanford, 1924	Mountain View	Bact. 182+238	MountainView-mv
[12]Newsom, John Branner A.B., Stanford, 1922, Engineer, 1924	Palo Alto	Min. gr.	758 Everett-p
Newton, Elizabeth Virginia	Riverside	Engl. 90·42+23	169 Roble
Newton, Glenn De Witt A.B., Stanford, 1924	Glendale	Law 180+78	306 Union-*81*
Nicholas, Marion Irene	Los Angeles	LD 49+55	380 Roble-*1014*
Nicholas, Warren Whittier A.B., Stanford, 1923, A.M., 1924	Palo Alto	Phys. gr.	458 Channing-p
Nicholes, Joseph Kelly A.B., Brigham Young, 1916; A.M., Stanford, 1924	St. George, U.	Chem. gr.	465 Hamilton-p
Nichols, Frank Culver	Hollywood	LD 93+83	249 Toyon-*I*
Nichols, Winifred Barton	Pasadena	LD 91+57	Sigma Kappa-*1327*
Nicholson, Robert LeRoy	TwinFalls,Ida.	LD 73+30	Encina Gym-*I*
Niebergall, Herbert A. A.B., Stanford, 1923	Vancouver,B.C.	Med. gr.	2215 Buchanan, SF-sf
[5]Niemann, Christian W.	San Francisco	Pre-Med. 120+95	136 Toyon
Nittler, Rudolph John	Oakland	LD 59+43	1201 Bryant-p
[4]Nivon, Georges	Palo Alto	Fr. sp. 58+84	630 Bryant-p
Noble, Burton Avery	San Francisco	Chem. 158+92	116 Toyon
Nolan, Lloyd Benedict	San Francisco	LD 58–10	Delta Kappa Epsilon

Noland, Harry Leslie	Saguache, Colo.	Law 132–7	209 Toyon-*1268*
Norberg, Raymond William	Pasadena	Chem. 142+80	122 Toyon-*990*
[5]Norris, Paul Edison A.B., Stanford, 1924	Fullerton, Neb.	Chem. gr.	136 Branner-*95*
[4]Northcross, Gleeson O.	Phoenix,Ariz.	LD ‡	25 Alvarado
Northway,William Herrick, Jr.	Hughson	LD 92+89	81 Sequoia
Norton, Oliver Edward A.B., College of the Pacific, 1921	San Jose	Pol. S. gr.	618 Asbury, SJ-sj
Nourse, Barbara E.	San Francisco	LD 76+2	Kap.Kap.Gamma-*1354*
[4]Nowell, Nelson T.	Honolulu, T.H.	Econ.159+35	425Emb'cad'o-*1331*
Noxon,Margaret Elizabeth A.B., Stanford, 1924	Alhambra	Educ. 130·50+55	276 Roble
Nunn, Marshall E. A.B., Stanford, 1924	Colo.Springs,Colo.	Span. 85·95+52	847 Bryant-p
[13]Nye, Ralph	Ogden, U.	LD 14·72+69	Phi Kappa Psi-*1333*
Oatman, Homer Clifton, Jr.	San Diego	LD 6·81+16	Zeta Psi-*B*
[4]O'Brien,Harold Eugene B.S., Nevada, 1920	Sparks, Nev.	Sch. Ed. gr.	Union
O'Carroll, Harry J.	San Jose	Min. 45·69+6	533 N. 3rd, SJ-sj
[12]O'Connor, James Wallace	Venice	LD 48–18	Phi Delta Theta-*1334*
[4]Odashima, Yozo	Hiraka, Japan	LD sp.	Box 19B,RedwoodCity-rc
[4]Oddie, Georgiana Madeleine	Belmont	LD sp.	Belmont-b
Odemar, Walter Henry	Los Angeles	LD 95+40	258 Toyon-*1299*
O'Donnell,Stephen Francis	Los Angeles	LD 37–16	39 Sequoia
[23]Off, Theodore Roosevelt	Los Angeles	LD 83–13	Delta KappaEpsilon-*O*
[8]Offerman, Gustav Henry	Los Altos	LD 15+13	Los Altos-la
Officer, Robert Holmes	Washington,D.C.	LD 45·43–6	109 Toyon-*1144*
Ogden, Geo. Washington, Jr.	Palo Alto	LD 45+44	1139 Ramona-p
Ogden, Lionel Edward	Santa Monica	LD 60–7	Delta Kappa Epsilon-*O*
Ogden, Roderick Alan	Palo Alto	Pre-Med.92·45+37	1139 Ramona-p
O'Hara, Francis Paul A.B., Stanford, 1924	San Diego	Pre-Clin.46·149+90	PhDelTh-*1334*
[34]O'Hara, Joseph J.	San Diego	PreMed.50·97–6	PhiDel.Th.-*1334*
[23]Ohtsuki, Takashi B.S., Tokyo Technical, 1914	Kaibara, Japan	E.E. gr.	30 Encina
O'Keefe, Marcella Frances	Menlo Park	LD 45·42–4	329 Roble
[5]Olds, Walter Keogh	San Francisco	LD 59–13	Delta Tau Delta
[12]O'Leary, Joseph Arthur	Palo Alto	LD sp. 26+4	667 Hamilton-p
Oleson, Harry A.	Gypsum, Colo.	LD 46+37	321 Encina
Oliva, David Melvin	San Francisco	Law 141+98	142 Toyon
Oliver, Harriet Elizabeth	Los Altos	LD 89+82	Delta Gamma
[23]Oliver, Richard Blair	Chico	Engl.-Jn. 37–17	204 Union

Olmsted, Lois May	Glendale	LD 45+30	374 Roble
[12]Olmsted, William Pitkin	Los Angeles	Geol. 165+12	Delta Upsilon-*1353*
Olsen, Daniel Minter	Palo Alto	Econ. 165+141	321 Fulton-p
Olsen, Margaret Elizabeth	Hollywood	LD 44+81	160 Roble
[4]Olsen, Marie	Omaha, Neb.	LD sp.	337 Roble
[4]Olson, Rebecca Marie	Turlock	Econ. ‡	Madroño
Oneal, Duncan	San Jose	LD ‡ 41+0	355 Encina
O'Neil, Maud A.B., Stanford, 1924	Mountain View	Engl.135·57+60	355P.A.av,MVmv
[5]O'Neill, Francis Ignatius	San Francisco	Chm.Md.69·119+86	503Encina-*872*
Orem, Hollis Milon	Salt Lake City, U.	LD 47+54	Mt. View-Box735, p
Orme, Lindley Henry A.B., Arizona, 1923	Phoenix, Ariz.	Law gr.	541 Cowper-p
Orr, Paul Wright	Modesto	S. Biol. 155+65	432 Encina
Osborn, Clarence Gladden	Los Angeles	Econ. 5·73+100	Alpha Delta Phi
[12]O'Shea, John Bernard	Portland, Ore.	LD 17–*27*	13 Encina
Osthaus, Franz	Los Angeles	LD 43+19	202 Encina
[4]Osuna, Pedro B.S., New Mexico College of Agriculture, 1920	Albuquerque, N.M.	Pre-Med. gr.	Pacific Grove-pg
Otis, Webster Bailey	Altadena	LD 86+17	103 Branner
[2]Otterson, Otto Harold	Post Falls, Ida.	M.E. 109·11–5	917 Alma-p
[4]Otto, Louise J.	Kerman	Educ. ‡	616 Forest-p
[4]Otto, William August A.B., Michigan, 1906	Kerman	Educ. gr.	616 Forest-p
[12]Outcalt, Earl Kinyon	San Pedro	LD 66·35+35	344 Encina-*514*
Overfelt, C. Harold	San Jose	Econ.-Law 144+144	Sig. Nu-*1385*
[124]Overfelt, Dorothy Louise A.B., Stanford, 1924	San Jose	Econ. gr.	Delta Delta Delta-*1325*
[23]Overholtzer, K. Mildred A.B., Stanford, 1924	Claremont	Econ. 120·76+29	Roble
Oviatt, G. Tod	Santa Barbara	LD 86+24	Phi Delta Theta-*1334*
[12]Owens, Edgar Preston	Aetna Springs	LD 39–5	925 Waverley
Ownby, James, Jr.	Gridley	LD 42+5	130 Encina
[234]Oyama, Masao	San Francisco	LD 31+17	30 Encina
[4]Pacheco, Olivera A.B., California, 1922	Santa Barbara	Educ. gr.	364 Roble
Page, Benjamin H. A.B., Stanford, 1922	San Mateo	Med. gr.	225 Minnie, SM-sm
[4]Page, Dorothy	Santa Barbara	Fr. ‡	Roble
Page, Howard Wheeler	Los Angeles	LD 46+13	245 Encina
[4]Paige, Frank Eaton	Tucson, Ariz.	LD sp. 7–1	142 Toyon
[5]Paine, Roy Eddy	San Francisco	LD 49+46	San Juan-*934*

[12]Paine, Willard D.	Santa Cruz	LD 111–10	421 Encina-*605*
[134]Pallette, Edward Choate	Los Angeles	Pre-Med. 123+27	Beta Theta Pi
[134]Pallette, Warren Sumner	Los Angeles	LD 43+26	418 Encina
[4]Palmer, Anne Firth A.B., State College of Washington, 1919	Bellingham, Wn.	Educ. gr.	340 Roble
Palmer, Burton White A.B., Stanford, 1924	San Jose	Econ. 180+64	435 Encina
Palmer, Chester B. A.B., Stanford, 1924	Mountain View	C.E. 188+233	316 Union-*1052*
[4]Palmer, Frederick R.	Bellingham, Wn.	Educ. 153·0+0	Sig.AlphaEps.-*1305*
Palmer, W. Lewis	Palo Alto	LD 39+34	369 Churchill-p
[3]Pareja, Francisco	Palo Alto	LD 9+6	909 Alma-p
Parent, Harold Lewis	Mill Valley	Geol. 9–42	38 Sequoia
Paris, Claude H.	San Francisco	LD 118–7	220 Toyon-*707*
Park, Harold Raymond	Spokane, Wn.	M.E. 177+185	620 Gilman-p
Park, Kenneth Marvin	San Francisco	LD 48+80	*222* Encina
[5]Parker, Darrell Russell	Phoenix, Ariz.	LD 50·44+34	529 Encina
Parker, Elizabeth	Baker, Ore.	Engl. 9·144+77	216 Roble-*963*
[23]Parker, Richard Cloyd	Los Gatos	LD 20–17	109 Encina
Parks, Charles Helmer	Cody, Wyo.	Hist. 145+30	PhiKappa Psi-*1033*
[5]Parks, Ernest Kempe	Palo Alto	Min. 55·132+122	170 Lowell-p
[4]Parks, Grace Amelia A.B., Washington, 1917	Palo Alto	Sch.Ed. gr.	151 Waverley-p
[124]Parlier, Lillian A.B., Stanford, 1924	Fresno	Sch. Ed gr.	Kingscote
Parson, Charles Elliot	DeKalb, Ill.	LD 78·45+23	PhiGam.Delta-*1324*
Parsons, Jack	Menlo Park	LD 43–6	Menlo Park-mp
[4]Parsons, Lloyd Samuel	Palo Alto	LD	606 Pine, PG-pg
Parsons, William Henry	Santa Cruz	LD 62+8	Delta Tau Delta
[1]Partridge, Margaret J.	Palo Alto	LD ‡ 13–5	328 Lytton-p
Partridge, Ruth Elizabeth	Berkeley	Span. 105+103	177 Everett-p
[1]Pasmore, Edith Edwina A.B., California, 1920; A.M., Stanford, 1922	Berkeley	Anat. gr.	144 Byron-p
Pasquale, Yvonne A. A.B., Stanford, 1924	San Francisco	Hist. 180+235	Kap.Kap.Gam.-*1354*
Pastorius, Horace Evans, Jr.	Redlands	LD 94+20	AlphaSigmaPhi-*1357*
[5]Patacsil, Anselmo Garcia	Munoz, P.I.	Educ. 98+9	22Alvarado-Box142,p
[5]Patacsil, Gregorio C. A.B., Stanford, 1924	Bauang, P.I.	Pol. S. gr.	14 Alvarado-*900*
[4]Patek, Eleanor Sarah	San Francisco	LD ‡	309 Roble
Patek, Sadie D. A.B., Stanford, 1911	San Francisco	Med. gr.	Kingscote-*1152*
[23]Paterson, Douglas D.	San Jose	LD 46–18	448 Encina

[1]Patterson, Allen A. Santa Maria Chem. gr. 554 Encina
A.B., Stanford, 1922, Engineer, 1924
[234]Patterson, Edwin A. Oakland Med. gr. 323 Waverley-p
A.B., Stanford, 1924
[12]Patterson, George W Houlka, Miss. Educ. gr. 251 Emerson-p
A.B., Mississippi, 1920; A.M., 1924
[1]Patterson, Richard Allen San Francisco LD 3–13 359 Encina
Patterson, Robert Darl Santa Maria Geol. 42·93+108 135 Toyon-*631*
[5]Patterson, William Donald Piedmont LD 38+12 302 Encina
[23]Pattiani, Elizabeth Piedmont LD 22·29+17 Delta Gamma-1366
[12]Pattison, Martin Los Angeles LD 55–19 Phi Kappa Psi-*1333*
Patton, Alfred Talbot Berkeley M.E. 184+133 250 Toyon-*688*
A.B., Stanford, 1924
[234]Patton, Robert Taylor Spokane, Wn. Law gr. 9 Union-*J*
A.B., Stanford, 1923
Paulsen,Catherine Margaret Palo Alto Engl. 10·132+78 602 Waverley-p
[1]Paustian, Henry Bloomfield, Neb. LD ‡ 7–4 10 Mirada
[12]Payne, Hobart Alson, Bakersfield LD ‡ 10–6 35 Channing-p
Payne, Oscar E. Pawhuska, Okla. Econ. 82·43+21 AlphaSig.Phi
Pearce, George Call Redwood City M.E. 192+199 108 Branner-*545*
A.B., Stanford, 1924
Pearce, Mercedes Redwood City Ed. G.A. 154+80 358 Roble
Pearson,Harrell Beckham Calgary,Can. LD 61+12 62 Sequoia-*566*
[3]Pearson, Lyall Walter Menlo Park LD ‡ 15+6 Menlo Park-mp
[14]Pease, Clarence Howard Stockton Hist. gr. 327 Hamilton-p
A.B., Stanford, 1924
[234]Pease, Marjorie Estelle PaloAlto LD 28+30 327 Hamilton-p
[13]Peck, Alice Hawley Los Angeles LD 74+11 Gamma Phi Beta-*1337*
Peck,Sarah Katheryn Merced LD 46+60 368 Roble
[4]Peckham, Avis Winslow San Mateo LD 329 Union
Peckham, Doyle Starr Watsonville Engl. gr. 25 Salvatierra-*46*
A.B., Stanford, 1923
Peery, David Harold Porterville Econ. 13·140+1 DeltaUpsilon-*1353*
[12]Peery, Elmer J. Corcoran LD 59–15 258 Toyon-*966*
Peet, Robert Barfe Palo Alto Chem. 127·54+17 470 Coleridge-p
A.B., Stanford, 1924
Pegram, Reginald Byrne Los Angeles LD 60+5 AlphaTauOmega-*1384*
Peirce, Carolyn Palo Alto Chem.121+169 281Embarcadero-p
Peirce, Elizabeth Palo Alto S.Biol.188+175 281Embarcadero-p
A.B., Stanford, 1924
Peirsol, Madge Claremont Med. gr. 667 Channing-p
A.B., Pomona, 1921
Pence,Edward Alan MountainHome,Ida. LD 37–5 109 Encina-*1237*

[4]Pendleton, Philip Y.	Phoenix, Ariz.	LD ‡	141 Toyon
Penepacker, Frank M.	Hoquiam, Wn.	LD 134+52	225 Toyon-*917*
[23]Pennington, Richard L.	Burlingame	LD sp. 19–15	15 Salvatierra
Pepys, Frederick Courtenay	La Jolla	LD 91+33	751 Webster-p
Percy, William Armstrong	Los Angeles	LD 40+10	308 Encina
[5]Perham, Don DeBlois	Palo Alto	Engl. 11·159+113	335 Melville-p
Pering, Alfred Vernon	Palo Alto	LD 75+16	660 Forest-p
Perkins, Barbara M.	San Francisco	LD 45+54	*272* Roble
Perkins, Thomas Dunn	Los Angeles	LD 45+28	307 Encina
[12]Perrine, Kenneth D.	Ashland, Ore.	LD 52–23	210 Toyon-*554*
[4]Persinger, Clark E.	Taft	Educ. gr.	362 Hanover, M
A.M., Nebraska, 1900			
Peter, Leslie Harber, Jr.	Oakland	Pol.S.4·132+118	A.Kap.Lamb.-*897*
Petersen, Jennie Marie	Richfield, U.	Chem. 136+65	148 Roble-*532*
Peterson, Algot Julius	Palo Alto	Law gr.	660 Waverley-p
A.B., Stanford, 1923			
[4]Peterson, Amy C.	Taft	Sch. Ed. gr.	Madroño
A.B., Iowa State Teachers' College, 1923			
Peterson, Grace Caroline	Claremont	Psych. 100·40+39	362 Roble
Peterson, Harold W.	Portland, Ore.	LD 46+48	117 Encina-*1162*
Peterson, Thomas F.	Brooklyn, N.Y.	E.E. gr.	129 Emerson-p
B.S., Cooper Union, 1923; Engineer, Stanford, 1924			
Pettibone, Gilbert William	San Francisco	LD 5·78–20	14 Sequoia-*851*
[4]Pfander, Homer Garrison	San Rafael	Engl. gr.	524 Hamilton-p
A.B., Lake Forest College, 1917			
[3]Phelps, Davenport Rees	Los Angeles	Econ. 99–3	527 Miller, So. SF-sf
Phelps, Earlene	Phoenix, Ariz.	Engl. 180+112	A.Omicron Pi-*1367*
A.B., Stanford, 1924			
Phelps, Harry Raymond	Omaha, Neb.	Econ. 109·73+29	Alpha Delta Phi-*J*
A.B., Stanford, 1924			
[12]Phelps, John Edmund, Jr.	Los Angeles	Econ. 180+18	Al.Tau Omega-*1384*
A.B., Stanford, 1924			
[27]Philip, George Cecil	Omaha, Neb.	LD 26–10	301 Encina
[4]Phillips, Edna Spicer	Paso Robles	LD ‡	179 Roble
Phillips, LaForest Ethelbert	Palo Alto	Pre-Med. 18·104–7	337 Hamilton-p
Phillips, Victor Frank	Los Angeles	LD 42–17	218 Encina-*1291*
[1]Phinney, Alfred Earl	Kansas City, Mo.	Econ.-Law 182+148	Kappa Alpha
Piedmonte, Adolph Louis	Turlock	Pre-Med. 30·107+56	136 Branner
Pierce, Norman Elliot	Suisun	LD 29–29	348 Encina
[12]Pierce, William, Jr.	Suisun	LD 14–23	348 Encina
[234]Pigott, C. Montague	San Jose	Min. 11·158+117	483 N. 16th, SJ-sj
Pike, Raymon Arthur	Modesto	Econ. 135·41+11	11 Sequoia

[34]Pike, Ruthven Wedgwood B.S., Chicago, 1920	Chicago, Ill.	Geol. gr.	Union
[12]Pillsbury, Arthur Francis	Yosemite	LD 31+11	141 Encina
Ping, Er-Chang	Hunan, China	Zool. 85·72+15	328 Union-*1119*
[13]Pitts, Dorothy Sara	Long Beach	LD 69·56+12	Phi Beta Phi-*1332*
[4]Platts, John Milton B.S., Rose Polytechnic, 1899	Palo Alto	Educ. gr.	651 Gilman-p
[12]Playter, Robert Franklin	Joplin, Mo.	Geol. 117+43	PhiDeltaTheta-*1334*
Pleasants, Frances A.B., Stanford, 1924	Nampa, Ida.	Hist. 39·143+60	Alpha Phi
[23]Plimpton, John Edward	Los Angeles	Econ. 137+47	545 Encina
[23]Plowe, Janet Quentin	Hollywood	Bot. 111·32+58	331 Roble
[1]Plunkett, Frank David	Chinook, Mont.	LD 3–12	247 Encina
[5]Poco, Alfrida Françoise C.	Reno, Nev.	LD 82+52	Kap.AlphaTheta-*1336*
[4]Pocock, Ina Moseitus A.B., Indiana, 1913; A.M., Stanford, 1922	Alameda	Phyl. gr.	Pacific Grove-pg
[1]Podesta, Loyal James A.B., Stanford, 1924	San Francisco	Econ. 181+29	319 Union
[5]Polland, W. Scott	Sacramento	Pre-Clin. 133+183	Sig.AlphaEps.
[12]Pollard, Glenn Eugene A.B., Stanford, 1924	Spokane, Wn.	Min. gr.	Alpha Delta Phi-*J*
Pollock, Dorotha Rutter	Santa Ana	Hist. 67·67+24	SigmaKappa-*1327*
Pollock, Wayne Evans A.B., Stanford, 1924	Clarksburg	Pre-Clin. 95·99+74	236 Toyon-*605*
[12]Pond, Frederick Raleigh A.B., Stanford, 1924	Napa	Engl. gr.	514 Encina-*1225*
Poole, John Hammerson	Redwood City	Econ. 150+33	248 Wash., RC-rc
Pooler, Elizabeth F. A.B., Stanford, 1924	San Francisco	Hist. 90·99+138	Chi Omega
[12]Pope, Charles St. George	Sacramento	LD 101+42	Chi Psi-*588*
Porteous, Candace	Riverside	Ed. G.A. 90·47+31	254 Roble
[5]Porter, Alan	Rochester, N.Y.	LD sp. 40+45	555 Waverley-p
Porter, Dorothy Frances A.B., Stanford, 1924	Fresno	Bact. gr.	206 Roble-*992*
[4]Porter, Livingstone A.B., Harvard, 1916	Walla Walla, Wn.	Hist. gr.	Miss Harker's School-p
[5]Porterfield, Robert R.	Santa Monica	LD 136+83	Theta Xi-*1355*
Post, Alexis Everett A.B., Stanford, 1924	Berkeley	M.E. 129·62+30	Zeta Psi-*1251*
Post, Alfred Breed, Jr.	San Jose	LD 46+31	306 Encina
Post, Seraphim Fred	Berkeley	LD 46+66	362 Encina-*1251*
[4]Posgate, Robert Nelson	Vancouver, B.C.	LD sp.	281 Embarcadero-p
Postlewaite, William R.	San Antonio, Tex.	LD 155+81	Theta Xi-*1355*

[23]Potter, Charles Clinton	Los Angeles	LD 26–6	210 Encina-*122*
Potts, F. Ernest	Los Angeles	LD 100+23	138 Toyon-*1294*
Poulson, Wardle Ellis	Beverly Hills	LD 45+0	310 Encina-*603*
[4]Pounds, Donna Vivian A.B., Kansas, 1921	Coldwater,Kans.	Sch. Ed. gr.	339 Roble
Pouppirt, Pearl Sylva A.B., Stanford, 1921	Palo Alto	Med. gr.	435 14th ave., SF-sf
[1]Powell, George Townsend A.B., Stanford, 1924	Pasadena	Hist. 180+36	Kappa Sigma
Powers, Delmer Lance A.B., Oregon, 1922; A.M., Stanford, 1924	Eugene,Ore.	Geol. gr.	309 Union
Powers,Herbert William	Pacific Grove	LD 95+52	431 Encina-*1180*
Pratt, Arthur Clarence	Pacific Beach	Econ. 70·46+14	239 Toyon-*813*
[12]Pratt, Charles Pearson	San Francisco	LD 21–22	335 Encina
Prentice, Sartell, Jr.	Nyack, N.Y.	Mil. S. 90·44+19	115 Branner-*552*
Price, Fred Vivian	Long Beach	LD 39–17	418 Encina
Price, Harriet Frederica	Palo Alto	Zool. 88·44+17	550Embarcadero-p
[23]Price, Henry B., Jr.	Bryn Mawr, Pa.	LD 112–5	SigmaAlphaEps.-*1258*
Price, Joseph Pressly	Oakland	M.E. 166+1	237 Toyon-*1002*
[4]Price, William Clay	Los Angeles	LD	Menlo Heights-*840*
[4]Prichard, DeForest	Stanford	LD	550 Kingsley-p
Prince, David Treadway	Carmel	LD 22–20	315 Encina
Prior, Joe Clifford A.B., Stanford, 1924	Sheffield, Ill.	Law gr.	20 Sequoia-*1242*
Probasco, Barbara S.	San Francisco	LD 46+53	371 Roble
[2]Proctor, Ruth Whitaker	Palo Alto	Fr. 140+76	660 Coleridge-p
[234]Purnell, George Roberts	Sacramento	LD 72+44	308 Branner-124
[4]Pursel, Sara Elizabeth A.B., Wells, 1922	Bloomsburg, Pa.	Sch. Ed. gr.	Roble
[124]Purviance, Charles Emmet B.L., California, 1914; A.M., Stanford, 1923	Palo Alto	Educ. gr.	236 Seale-p
[12]Putcamp, William J.	Carbondale, Ill.	LD 31·114+3	322 Union-*1012*
Pyzel, Ewald	Piedmont	M.E. 99·43+15	14 Sequoia
Pyzel, Frederik Marinus	Piedmont	Chem. 96·29+11	14 Sequoia
[1]Quagelli, Henry Joseph	San Francisco	Law 23·77+21	Sigma Nu
[234]Quayle, Ernest H.	St. Anthony, Ida.	S. Biol. 34·126+114	Univ.Park-*4*
Quigley, John Scott	Alameda	Pre-Med. 136+7	Sig.Al.Eps.-*1305*
[4]Quill, Lawrence L. B.S., Nevada, 1924	Carson City, Nev.	Chem. gr.	233 Union
Quinlan, Ellsworth F. A.B., California, 1923	Half Moon Bay	Med. gr.	Menlo Park-mp
[12]Quinn, John	Big Springs, Tex.	LD 11·79+118	247 Toyon-*967*
[5]Quinn, Thomas Brennan	Stockton	LD 75+46	Sigma Nu-*1385*

[1]Quintero, Baldwin Peter	Santa Barbara	LD sp. 60–5	Delta Chi
[23]Quirmbach, Robert Paul	Needles	Pre-Med. 134+79	302 Union
[23]Raab, Werner John	Los Gatos	LD 30–20	137 Encina
Raaf, John Elbert	Pocatello, Ida.	LD 36·47+60	316 Encina
[4]Rachford, Maude E.	Alturas	LD 5–3	415 Lytton-p
Rackliff, Luella Marie A.B., Stanford, 1924	Hollister	Math.90·97+113	D.D.Delta-*1325*
Raffetto, Estral Joseph	Santa Barbara	LD 29–*22*	318 Encina
Railsback, Oscar C. A.B., Stanford, 1923	Hanford	Med. gr.	2321 Sacramento, SF-sf
[1]Ram, Bhagat	Swat, Afghanistan	LD 8–4	Main, Mayfield
Ramelli, Mattie A.B., California, 1917; A.M., Stanford, 1924	Ventura	Span. gr.	Madroño
Ramey, Earl	Palmdale	Hist. 170+199	311 Union-*1126*
Ramsey,William Maxwell	Yuma, Ariz.	LD 49+1	349 Encnia
[23]Randall, Velma Margaret	Los Angeles	LD 30+31	307 Roble
[23]Rankin, Carlisle Clark	Palo Alto	LD 12–14	508 Melville-p
Rasmussen, Elmer Christian	San Jose	Econ. 131+0	1060 Alameda, SJ-sj
Rathbone, Robert Hale A.B., Stanford, 1924	Beverly Hills	Pre-Clin.135·51+20	559 Cowper-p
Rathman, Norman Keith	Blair, Neb.	LD ‡ 50–19	29 Encina
[234]Ratzell, Pauline May A.B., Stanford, 1923	Turlock	Sch. Ed. gr.	Manzanita
[5]Rau, Thomas Rudolph	Los Angeles	Econ. 110+69	Phi Kappa Psi-*1333*
Rawhauser, John Gambell A.B., Stanford, 1924	Willows	C.E. 180+190	319 Union-*522*
[4]Rawlings, William A. A.B., McKendree, 1920	Porterville	Sch. Ed. gr.	Toyon
Rawlins, Aubrey Gatliff A.B., Stanford, 1921	Willows	Med. gr.	Y.M.C.A., SF-sf
[1]Rawlins, George H. A.B., Stanford, 1923	Globe, Ariz.	Law gr.	640 Waverley-p
Ray, William Alton	San Mateo	LD 47+31	42 Encina
[5]Raymond, Natalie Margaret	Pasadena	Psych. 87·52+71	321 Roble-*874*
Read, Grace Fletcher	Oakland	Hist. 45·86+75	Al.OmicronPi-*1367*
Read, Jesse Wilmot	Tacoma, Wn.	LD 48+41	333 Encina-*863*
[2]Reagan, Albert B. A.M., Indiana, 1904	Cornfields, Ariz.	Geol. gr.	640 Waverley-p
Rear, James Carleton A.B., Stanford, 1924	Vancouver, B.C.	M.E. 90·101+52	201 Branner
[12]Reavis, J. Ogden LL.B., Stanford, 1924	Bakersfield	Law 208+173	302 Union-*1*
[4]Redeker, Harry Erwin B.S., Idaho, 1912	Boise, Ida.	Chem. gr.	625 Hamilton-p

[12]Redeker, Ivan Monroe A.B., Stanford, 1923	Shelley, Ida.	E.E. gr.	311 Union
[1]Reed, Myron Nelson A.B., Stanford, 1924	Portland, Ore.	Econ. 180+12	Beta Theta Pi
[2]Reed, Ralph Daniel B.S., Hiram, 1913; Ph.D., Stanford, 1924	Howard, O.	Geol. gr.	1021 Forest Court-p
[1]Rees, Jack	Los Angeles	LD 59–15	Zeta Psi
[4]Rees, Jenkins Bennett A.B., Lombard, 1903	San Jose	Educ. gr.	487 No. 15th, SJ-sj
[5]Reese, Charles Alonzo, Jr.	San Jose	Hist. 90·45+30	93 N. 33rd, SJ-sj
[3]Reese, James Nesbit	Beaver Falls, Pa.	LD	Palo Alto
Reese, Lewis, Jr.	Modesto	LD 170+33	108 Branner-*545*
[1]Reeves, David Lander	SaltLakeCity,U.	LD 45+0	Chi Psi
[4]Regan, Agnes Elizabeth A.B., Convent of the Sacred Heart, 1924	Menlo Park	Engl. gr.	Menlo Park-mp
Rehm, Norman Robert	Bishop	LD 34–9	139 Encina
Reich, Joseph	San Francisco	LD 30–26	327 Encina
[12]Reinemund, Byron Russell	San Diego	Engl. 33·97+22	87 Sequoia
Reinhart, Henry Clayton	Toledo, O.	Econ. 119·40+16	Alpha Sigma Phi
Reiss, Malcolm Blum	San Francisco	LD 9·74+33	218 Branner
[1]Relph, Harold Edward	San Jose	LD 87–5	115 Sierra, SJ-sj
[2]Rendtorff, Gertrude E.	Stanford Univ.	LD 63+37	30 Alvarado-*1302*
Renton, Helen Elizabeth	San Francisco	Hist. 90·45+19	362 Roble
[2]Renwick, William Hedler	Palo Alto	Chem. 36–15	1035 Emerson-p
Reticker, Roland Wilson	Los Angeles	Econ. 50·126+4	Delta Chi-*1304*
de Reynier, Ernest Eisen	Berkeley	Law 47·75+23	Delta Upsilon
Reynolds, Charles Lee, Jr.	Portland,Ore.	LD 79+3	Theta Delta Chi-*1331*
Reynolds, Charlotte Almira	Palo Alto	LD 53+34	355 Roble
Reynolds, Frances Elizabeth	Alhambra	Hist. 86+2	Alpha Phi-*1387*
Rhine, Nathan Albert	Bishop	LD 46–3	124 Encina
[4]Rhodes, Belton	Los Gatos	LD 15+4	301 San Jose, LG-lg
[12]Rhodes, Orlando Hunter A.B., Stanford, 1924	Santa Monica	Law gr.	Phi Kappa Psi-*1333*
[3]Rich, Murray Weir B.S., Colgate, 1919; A.M., Stanford, 1924	Palo Alto	Phil. gr.	601 Webster-p
Richards, John Henry	Randlett, U.	M.E. 99·47+66	232 Branner
Richards, Lawrence Wayne	Los Angeles	Geol. 134+9	Delta Upsilon-*1353*
[4]Richards, Mernon C.	Long Beach	LD	237 Toyon
Richardson, Alan C.	Menlo Heights	Chem. 30·104+24	Menlo Hts.-*512*
[12]Richardson, Donald Bird	Palo Alto	Law 14·111–1	460 Kingsley-p
[34]Richardson, Helen Dale	Palo Alto	LD 40·46–3	460 Kingsley-p
[1]Richardson, Ira Ph.B., Central, 1897; A.M., Columbia, 1908	Maryville, Mo.	Educ. gr.	521 Everett-p

Richardson, Margaret L. A.B., Stanford, 1924	Los Angeles	Econ. 24+160+61	Delta Gam.-*1536*
[23]Richardson, M. Bruce	San Francisco	LD 31+33	13 Encina
Richardson, William Hord	Los Angeles	LD 77+36	Delta Upsilon
Richer, John Daniel A.B., Stanford, 1924	Los Angeles	Law 180+96	Al.TauOmega-*1384*
Richman, Frederick Ingleby	Los Angeles	LD 44+46	323 Encina
Richmond, Burnell Edmund	San Jose	LD 45+23	58 Encina
[12]Riddell, Robert Alexander	Los Angeles	LD 55+6	50 Sequoia
[11]Ridley, Daniel Graves A.B., Stanford, 1924	San Jose	Law gr.	412 Everett-p
[12]Ridley, Kenneth Felton	San Jose	LD 32+22	512 Cherry, SJ-sj
Riese, Elmer Frank	Huntington Park	LD 44+0	120 Encina
Riese, Raymond Max	Huntington Park	LD 44+47	120 Encina
[4]Rigast, Adolph Karl A.M., Wisconsin, 1921	Eureka	Educ. gr.	Cedro Cottage
[4]Riggs, Dorothy Marie A.B., Stanford, 1920	Fresno	Fr. gr.	218 Roble
Riley, James Ross, Jr.	Spreckels	C.E. ‡ 35–8	Theta Chi-*1383*
Rinn, Robert Henry	Lodi	Law 139+166	34 Sequoia-*1292*
[234]Rippey, Stanton	Los Angeles	Pol. S. 110+32	116 Branner
[1]Rising, Franklin E., Jr.	Los Angeles	LD 83–23	Sigma Nu
[4]Ritch, Charlene Mynette	Los Angeles	LD	260 Roble
[4]Ritchie, Eva A.B., Maryville, 1919	Ojai	Engl. gr.	Madroño
[27]Ritchie, Kenneth S. A.B., Stanford, 1921, Engineer, 1923	Stanford Univ.	Chem. gr.	554 Encina-*1180*
Riter, R. Bradley A.B., Stanford, 1924	Logan, U.	Econ.-Jn.182+154	Al.Sig.Phi-*1357*
Ritland, Hubert Oliver	La Mesa	LD 98+46	21 Salvatierra
Rittenhouse, Helen M.	Phoenix,Ariz.	LD 48+24	279 Roble
Rixford, Emmet Lane	San Francisco	LD 92+42	Theta Chi-*1383*
[2]Rixford, Henry C.	San Francisco	LD 87+7	438 Encina
[5]Robbins, Carl Burton	Port Norris, N.J.	Econ. 169+139	431 University-p
Robert, Henry Flood	Coronado	LD 40–7	406 Encina
[5]Roberts, Ada Jane	McCleary, Wn.	LD 16-83+101	152 Roble
Roberts, Andrew Aldrich	Los Angeles	LD 43+6	305 Encina-*594*
[1]Roberts, Donald H.	Portland, Ore.	LD 10–6	301 Encina
[5]Roberts, Dwight Conklin A.B., Stanford, 1924	Los Angeles	Min. gr.	Delta Upsilon-*1353*
Roberts, George Duncan	Pasadena	Econ.120+14	PhiDeltaTheta-*1334*
Roberts, John Huber, Jr.	Burlingame	S. Biol. ‡ 42–13	409 Encina
Roberts, Verl Ernest	Rupert, Ida.	LD 48+41	230 Encina

Robertson, Alan Hazelton	Santa Monica	LD 114+81	Phi Kappa Psi-*1333*
Robertson, Donald Logan A.B., Stanford, 1924	Modesto	Phyl.-Med. 200+200	46 Sequoia
Robertson, John W.	San Francisco	Phyl. 129+45	245 Branner
[23]Robertson Kenneth Gregg A.B., Stanford, 1924	Oakland	Phil. gr.	33 Salvatierra-*817*
Robertson, Margaret M. A.B., Stanford, 1922	Redwood City	Med. gr.	2475 Filbert, SF-sf
Robinson, Frances du Brutz	Aurora, Ore.	Pre-Med. 131+24	1200 Bryant-p
[4]Robinson,Helen Virginia	Galveston,Tex.	LD ‡	210 Roble
[5]Robinson, W. Price A.B., Stanford, 1924	Fresno	Engl.-Jn. gr.	505 Encina-*641*
Robison, Russell Roscoe A.B., Stanford, 1924	Jackson	M.E. 192+67	134 Toyon
[4]Roblee, Abigail A.B., Pomona, 1923	Riverside	Sch. Ed. gr.	222 Roble
[23]Robson, Dorothy Joyce A.B., Stanford, 1923	Campbell	Educ. gr.	Manzanita-*144*
[23]Roby, Richard Rush	Colo.Spgs.,Colo.	LD 95–13	1149 Middlefield-p
Rockefeller, Howard, Jr. A.B., Dartmouth, 1923	Los Angeles	Law gr.	Zeta Psi-*1265*
Rodegerdts, Carl Ernst	Sacramento	LD 73+33	Sigma Chi
Rogers, Ada Birdella	Hanford	Cl.Lit.164+79	Kap.Alp.The.-*1336*
Rogers, Alfred Emery	Los Angeles	Law 115+38	Delta Chi-*1403*
[234]Rogers, Genevieve	Stanford Univ.	Engl. 106+82	15 Salvatierra-*87*
[1]Rogers, Josephine Rand	San Jose	Psych. 90·55+34	Kap.Kap.Gam.
Rogers, Lee Hershey	Salt Lake City,U	LD 107+15	PhiSigmaKappa-*538*
[124]Rogers, William Lister A.B., Stanford, 1923	Hayward	Med. gr.	735 Taylor, SF-sf
Rohner, Arnold John A.B., Stanford, 1924	Palo Alto	M.E. 203+242	344 Fulton-p
[4]Roll, Ella Louise A.B., Stanford, 1917	Santa Clara	Educ. gr.	370 Channing-p
[5]Rolley, Leslie Eugene	Palo Alto	LD sp. 119+10	Box 486, p
Rood, Reginald Shepherd	San Diego	LD 48+81	422 Encina
Roodhouse, Edwin Greenlee	Alhambra	LD 90+21	Sigma Chi-*628*
Root, Enid Doris	San Francisco	LD 37·71–6	226 Roble
Roper, Elizabeth Hervey	El Paso, Tex.	Ed. G.A. 143+138	Alpha Phi-*1387*
Ropes, Richard Walter	Woodlake	LD 41–9	29 Encina-*562*
[5]Rorden, Harold Louis	Petaluma	M.E. 13·101+168	54 Sequoia
[23]Rorke, Harold B.	Hollywood	Pol.S.-Jn.137–1	PhiGam.Del.*1324*
[12]Rosaia, Andrew George	Eureka	LD ‡ 6–7	Sequoia
[5]Rose, Embree Rector A.B., Indiana, 1919, A.M., 1922	Linton, Ind.	Chem. gr.	Cowper Court-p

Rose, Milton Franklin	Phoenix, Ariz.	LD 79–11	110 Toyon
[5]Rose, Norrell Edmund	Santa Ana	Engl. ‡ 55–13	248 Branner
Rosebrook, Genevieve C.	Palo Alto	Ed.G.A.33·111+38	336 Emerson-p
[5]Rosenbaum, Charles W.	San Francisco	LD 99–21	216 Branner-*1160*
[1]Rosenbaum, Mervin Fred A.B., Stanford, 1924	San Francisco	Hist. 180+39	2224Wash., SF-sf
Rosenburg, Philip	Hollywood	LD 118+4	239 Branner-*135*
[13]Rosenfield, Milton S. A.B., Stanford, 1924	St. Joseph, Mo.	Law 49·110+51	209 Union-*1115*
[5]Rosneau, David Lee, Jr. A.B., Yale, 1922	Stanford Univ.	Law gr.	306 Union-*866*
Ross, Arthur Alexander	Stanford Univ.	LD sp. 9·128+5	129 Branner-*978*
[12]Ross, Blanch Emline A.B., Stanford, 1924	Redwood City	Span. gr.	Alpha Phi-*1387*
Ross, Chester Erwin	Gilroy	LD 93+64	252 Toyon-*I*
Ross, Effie Christie A.B., Columbia, 1921	Palo Alto	Chem. gr.	211 Melville-p
[5]Ross, Gordon McKinnon	Stanford Univ.	LD sp. 7·125+33	129 Branner-*978*
[12]Ross, James Gordon A.B., Stanford, 1924	Santa Barbara	Econ. 14·166+13	257 Toyon-*I*
[5]Ross, John R. A.B., Nevada, 1923	Yerington, Nev.	Law gr.	Ramona Apts.-p
[23]Ross, John William	San Francisco	LD 28+16	327 Encina
[1]Ross, Lester	Chinook, Mont.	LD 7–13	29 Encina
[3]Rossarini, Edith Y.	Truckee	LD 94+105	Delta Delta Delta-*1325*
Roth, Alice Caroline A.B., Stanford, 1924	Willits	Phil. 181+160	Santa Teresa
Rothschild, Rene L.	Greeley, Colo.	Psych. 139+92	302 Branner-*1010*
Rounsefell, George A.	Ketchikan, Alaska	LD 69·54+58	244 Tennyson-p
[12]Rouse, Gaylor	Riverside	LD 13–9	322 Encina
Row, Martin A. A.B., Stanford, 1924	Oklahoma City, Okla.	Econ.-Law 183+72	25Sequoia-*688*
[5]Rowell, Milo Edwin	Fresno	Law 176+64	AlphaSig.Phi-*1357*
[5]Rowland, DeWitt Clark A.B., Stanford, 1924	Tacoma, Wn.	Geol. gr.	320 Encina-*911*
[5]Rowland, Gilford Glenn A.B., Stanford, 1923	Stanford Univ.	Law gr.	251 Toyon-*911*
Rowland, Homer Harold	Santa Monica	LD 46–15	407 Encina
[27]Rowland, Robert Russel	Santa Monica	LD 61–12	407 Encina
Rowles, Edward Behle	Idaho Falls, Ida.	LD 46–1	247 Encina-*517*
[23]Rowles, Fillmore	Mountain View	LD 74+3	Phi Sigma Kappa-*538*
Rubicam, George Rex	Clayton, Mo.	LD 60·24–1	350 Encina-*1278*
[4]Rudolph, Bert A. B.S., California, 1914, M.S., 1915	San Jose	Bot. gr.	16 So. 1st, SJ-sj

Rugen, Richard C.	Glenview, Ill.	Law 132·42+14	53 Sequoia
[12]Rumwell, Arnold	San Francisco	LD 55–11	AlphaSigmaPhi-*1357*
Runyan, James Nelson	EllwoodCity,Pa.	Hist. 45·101+14	544 Encina-*1058*
[1]Rush, John Louis Ph.B., Denver, 1921; J.D., Stanford, 1924	Los Angeles	Law gr.	Phi Kappa Psi
Rusk, James Henry A.B., Stanford, 1924	Palisades, Colo.	Hist. Law 96·92+98	307 Union
Russell, Leroy Burnett	Stockton	LD 36–16	2255Mariposa, SF-sf
Russell, Rebecca Alice	Palo Alto	LD 27–17	1312 Cowper-p
[3]Rust, Fred Earnest	Los Angeles	LD 14+8	307 Encina
[23]Rutter, Cloud D.	San Francisco	Econ. 139–9	Delta Chi-*1304*
[12]Ryan, John Jos. Corbett	San Francisco	LD 21–16	Calif. Mil. Acad.
Sah, Pen Tung A.B., Stanford, 1924	Foochow, China	M.E. gr.	Chinese Club-1167
Saier, Milton Herman A.B., Stanford, 1924	Fresno	Chem.-Med. 195+52	ThetaXi-*1355*
Sampson, Richard Hunt A.B., Stanford, 1924	Los Angeles	Law 191+86	DeltaKappaEps.-*O*
[4]Samuelson, Stanley	Tucson, Ariz.	LD ‡	235 Leland, M-m
Sanborn, Ethel Ida A.B., South Dakota, 1904, A.M., 1907	Eugene, Ore.	Bot. gr.	Madroño
[12]Sandberg, W. Lee	Stanford Univ.	Econ. 167+25	Kingscote-*1304*
[5]Sanders, Gerard G. A.B., Stanford, 1923	Wassenaar, Holland	Law gr.	1098 Emerson-p
Sanders, John Forrest	Saratoga	LD 93+38	Saratoga-s
[12]Sands, Albert W. A.B., Stanford, 1924	Albany, Ore.	Geol. 180+117	242 Toyon
Sandwick, Richard F.	HighlandPark, Ill.	LD 30–4	206 Encina
Sandys, Edward English	Los Angeles	Law 96·46+15	Delta Chi-*1304*
[2]Sanford, Dudley Phelps	San Jose	Phyl.-Med. 162+11	214 Union
Sanguinetti, Melvin Stephen	Lodi	Econ. 135+194	59 Sequoia-*1159*
[2]Sano, John Hiroshi	San Francisco	LD 14+8	Japanese Club-*598*
[23]Sano, Joseph Yuzuru	San Francisco	M.E. 127–6	Japanese Club-*598*
Sanson, Kenneth Dudley	So. Pasadena	Econ. 44·93+114	PhiSig.Kap.-*538*
[21]Sauer, Fred Charles	Reedley	LD 25·71+81	19 Alvarado-*646*
[1]Sauters, Robert V.	Martins Ferry, O.	LD 6–16	330 Encina
[3]Sawyer, Frank Orville	Los Angeles	LD 49–19	104 Branner
[23]Sawyer, Theodore K. A.B., Stanford, 1924	Swarthmore, Pa.	Geol. 45·135+4	627 Emerson-p
Saxon, Muriel Dorothy	Willits	LD 81+20	Gamma Phi Beta-*1337*
Sayles, Charles Murrell A.B., Stanford, 1924	Abilene, Tex.	C.E. 131·49+28	345 Hamilton-p
Sayre, George Maxwell	Ardmore, Okla.	LD 50+5	426 Encina

Schacht, John Henry, Jr. Sacramento LD 44+36 Phi Delta Theta-*1334*
[4]Schaefer, Amos E. Alva, Okla. Hist. gr. 213 Union
A.B., Oklahoma, 1923
[12]Schafer, Robert Toland Ontario Pre-Med.135·19+14 60 Sequoia-*956*
[5]Schall, Myron Reed Monte Vista LD 33–2 226 Encina-*1252*
Schardin, Helen Katherine Sacramento Cl.Lit.gr. DeltaDeltaDelta-*1325*
A.B., Stanford, 1924
Schaufelberger, Margret San Diego LD 45+51 168 Roble
Scheidecker, Albert F. Sebastopol LD 92+55 105 Branner-*1000*
Scherer, Herman Carlyn Palo Alto LD 38+7 Box 82, p
[234]Schilling, Dorothy Cecelia Palo Alto Engl. gr. 705 University-p
A.B., Stanford, 1921
[5]Schink,Clifford E. Dawson,YukonTer. LD 40+38 500 Encina
[4]Schlein, Walter Charles Fresno Educ. 103·18+14 114 Toyon
Schmid, Harold William Palo Alto M.E. 170+10 235 Emerson-p
Schmieder, Fremont R. San Francisco M.E. 172+53 139 Toyon-*545*
Schneider, John Hebron,N.D. Hist. gr. 805 S. 9th, SJ-sj
[3]Schneider, Phillips Sumner Berkeley Econ. 9·171+73 Zeta Psi-*B*
A.B., Stanford, 1924
Schoen, Arthur Castle Hilo, Hawaii C.E. 137+79 240 Toyon-*1243*
Schofield, Mary Lusia Palo Alto LD 66+115 751 Channing-p
Schomaker,Theodore Paul SanFrancisco LD 90·45+61 561 Encina
[4]Schray, Emma Fresno Sch. Ed. gr. 116 Roble
A.B., Fresno State Teachers College, 1924
[5]Schultz, Alfred Fred Tripoli, Ia. Geol. 5·170+3 234 Union-*612*
Schultzberg,Frank Irwin SanFrancisco Engl. 129+55 Theta Chi-*1383*
Schussman, Leo George Palo Alto Educ. gr. 580 Addison-p
Ph.B., Chicago, 1911
[4]Schwab, Caroline L. Shelby, O. Engl. gr. Roble
Ph.B., Chicago, 1920
[12]Schwartz, Eva Doris San Mateo Bact. 94·52+49 379 Roble
[23]Schwartz, Karl Roger San Francisco LD 39–18 282 University-p
Schwartz,Laura Virginia Honolulu,T.H. Engl. gr. Manzanita-*572*
A.B., College of the Pacific; A.M., Stanford, 1921, Ph.D., 1924
Schwartz,Leonard Kelsey San Francisco LD 45+31 228 Encina
[234]Schwartz, William Leonard Mayfield Fr. gr. 421 Harvard, CT-*572*
A.B., Ohio Wesleyan, 1910; A.M., Stanford, 1920
[3]Scofield, Eugene Cottle Palo Alto LD 52+40 430 Kingsley-p
Scofield, Philip Forest Palo Alto M.E. 180+169 430 Kingsley-p
A.B., Stanford, 1924
Scott, Charles Craven Twin Falls, Ida. LD 47+55 324 Encina-*852*
[4]Scott, Esther Anna Santa Clara LD ‡ 1597 Harrison, SC-sc
Scott, Flora Murray Stanford Univ. Bot. gr. 3 Lasuen-859
B.S., St. Andrews (Scotland), 1914

[4]Scott, Ralph S.	Washington, D.C.	Law gr.	Phi Sigma Kappa
A.B., George Washington, 1921			
Scott, Raymond Robert	Selma	Med. gr.	1920 Post, SF-sf
A.B., Stanford, 1922			
Scribner, Theodore Edward	SanFrancisco	Econ. 180+216	125 Branner-*1256*
A.B., Stanford, 1924			
Scribner, Thornton Seron	Monticello	LD 89+18	*226* Toyon-*554*
[3]Scudder, Joseph B.	Trenton, N.J.	LD 98+78	Kappa Sigma
[1]Seaman, Wesley Albert	Marshfield,Ore.	Law gr.	1035 Alma-p
A.B., Stanford, 1923, J.D., 1924			
Sears, Maynard Joseph	Jamieson,Ore.	LD 36–12	325 Encina
[4]Seavey, Elizabeth Jane	Phoenix, Ariz.	LD	342 Roble
Secor, Joy	Berea, Ky.	Engl. gr.	Kingscote-*642*
A.B., Carleton, 1902; A.M., Columbia, 1910			
Seeger, Thomas Frederick	Winslow,Ariz.	M.E. 110–23	318 Emerson-p
Seibert, Olga Luella	St. Paul, Minn.	Span. 80+19	730 Bryant-p
Selenger, Edmund Jackson	San Mateo	LD 38–19	12 Ellsworth, SM-sm
[4]Selfridge, Evelyn Gregory	SanFrancisco	Engl. ‡	Roble
Selig, Philip, Jr.	San Francisco	LD 93+131	205 Branner-*873*
Senior, Raymond Theo	SaltLakeCity,U.	Law 33·89+58	59 Sequoia-*1118*
[12]Senter, William A., Jr.	SaltLakeCity,U.	Econ. 79·102+43	71 Sequoia-*1131*
A.B., Stanford, 1924			
Sera, Morio	Waipahu, T.H.	LD 72+31	Japanese Club-*598*
[4]Severance, Hayward M.	Buffalo, N.Y.	Sch. Ed.gr.	247Toyon-*506*
B.S., California, 1910, M.S., 1914			
[4]Severson, Lewis E.	Newkirk, Okla.	Econ. gr.	116 Toyon
A.B., Kansas, 1919; A.M., Stanford, 1923			
Sewell, Herbert Allan	Elko, Nev.	LD 99+51	137 Toyon
Seymour, D. Bruce	Stanford Univ.	Geol. 182+27	137 Toyon
A.B., Stanford, 1924			
[23]Shadomy, Elmus Vincent	Los Angeles	LD 19–21	Kappa Alpha
Shannon, George Pope	Redwood City	Engl. gr.	R. F. D. 1, rc
A.B., Vanderbilt, 1917; A.M., Stanford, 1923			
[4]Shannon, Margaret Lee	Redwood City	Educ.gr.	Route 1, rc
A.B., Tennessee, 1918			
[1]Shannon, Patrick	Palo Alto	LD 11·79+22	Alexandria Hotel
Sharp, James Graham	Palo Alto	LD 120+97	Zeta Psi-*B*
Sharp, Luther	San Jose	Econ. gr.	946 Kendrie, SJ-sj
A.B., Southern California, 1917			
[3]Shattuck, John George	Palo Alto	LD 14+0	175 Universityave-p
[5]Shattuck, Spenser Sidney	Bisbee, Ariz.	LD 60+57	Phi Sigma Kappa-*538*
[5]Shaull, Ethel Mae	Los Angeles	Bact. gr.	184 Roble-*676*
A.B., Stanford, 1924			
[5]Shedd, Bertha Labaree	San Jose	S. Biol. 10·113+187	*264* Roble-*681*

[3]Shedd, Louise Dawes	San Jose	LD 14+20	262 Roble-*681*
Sheets, Howard Alex	Los Angeles	LD 28–17	20 Encina
[4]Sheffield, Marion Shirley	Long Beach	LD ‡	226 Roble
[1]Sheldon,Frances Elizabeth A.B., Stanford, 1922, J.D., 1924	Boston,Mass.	Law gr.	Gamma Phi Beta
Shelly, James Lawrence	Phoenix, Ariz.	Law 53·98+26	114 Encina-*1326*
[5]Shen, Eugene A.B., Stanford, 1923	Shanghai, China	Psych. gr.	328 Union-*1168*
[5]Shen, Kwan Chun	Tientsin, China	Pol. S. ‡ 46–4	Chinese Club-*4*
[234]Shepard, O. Cutler	Palo Alto	Min. 45·111+90	771 Hamilton-p
Shepard, S. Dorothy A.B., Stanford, 1924	Palo Alto	Hist. 9·182+102	771 Hamilton-p
Shepherd, David A.B., Utah, 1918; A.M., Stanford, 1924	Logan, U.	Ent. gr.	Menlo Heights
Shepherd,Frances Elizabeth	Yorba Linda	Hist. 90·46+44	162 Roble
Shepherd, Nellie Louise	Yorba Linda	LD 49+85	162 Roble
[5]Sherman, Ira Lawrence	Los Angeles	Law 8·123+118	131 Branner-*1139*
Sherman, Theodore Allison A.B., Stanford, 1924	Boise, Ida.	Engl. 135·45+37	129 Emerson
[12]Sherman, Thomas Hall	Palo Alto	LD 20–24	427 Webster-p
Shermund, Ralph Conrad	San Francisco	Bact. 95–13	Kappa Alpha
Sherrill, Frederick Orlo	Riverdale	Pol. S. 127–10	241 Toyon
Sherrill, Gilbert Oren	Riverdale	LD 92+24	313 Toyon
[4]Sherwood, Frank T.	Stanford Univ.	LD 29+11	Stanford Univ.
Shima, Togo	Berkeley	LD 53+48	238 Encina-*1155*
Shipkey, Harry Hector	Fullerton	Econ.-Law108+28	Kap.Sig.-*1326*
Shipkey, Ted Edwin	Fullerton	LD 44+12	16 Encina
Shippy, Frank Alfred	Palo Alto	Hist. 24·64+48	910 Ramona-p
Shiras, Russell Norman A.B., College of the Pacific, 1923	San Jose	Phys. gr.	226 Union
Shlaudeman, Frank Henry	San Dimas	LD 47–13	DeltaKappaEpsilon-*O*
Shoenhair, George John, Jr.	Los Angeles	Econ. 146–6	DeltaUpsilon-*1353*
Shoenhair,Theodore Kinne	Los Angeles	LD 40–5	417 Encina-*683*
[1]Sholes, Arlan Edward	Long Beach	LD 49–15	Theta Xi
Shoup, Carl Sumner A.B., Stanford, 1924	Los Gatos	Law 180+261	PhiDeltaTheta-*1334*
[5]Shumaker, Phil William	Los Angeles	LD 89+55	SigmaAlphaEps.-*1305*
[34]Sias, Azariah Boody Ph.B., Rochester, 1903, A.M., 1922	Rochester, N.Y.	Educ. gr.	12 Union
Sibbett, Ewing	Berkeley	LD 45+60	123 Encina
[3]Sickler, J. Hackett	Pasadena	Engl. ‡ 13+10	Zeta Psi-*B*
Sidway, Charles Lee A.B., Stanford, 1924	Ocean Park	M.E. 181+59	240 Embrdro.-*1067*

Siebert, Alfred A.	San Jose	Med. gr.	2101 A Webster,-SF-sf
A.B., California, 1921			
Siemon, James Elerick	Hinkley	LD 43–11	253 Everett-p
Siemons, John	Grand Rapids, Mich.	LD sp. 37+3	105 Encina
Sievers, J. Paul	La Habra	Law 130+43	220 Toyon-*545*
Sievers, Ruth Esther	Everett, Wn.	LD 45+73	224 Roble-*1175*
[3]Sievers, William Edward	La Habra	LD 8–11	310 Encina-*545*
[12]Silitch, Eugene W.	Petrograd, Russia	C.E. 135·45–9	Atherton
[4]Sill, Joseph, Jr.	Pasadena	LD ‡	111 Toyon
[13]Silver, Charles Richard	Irvington	Econ. 100+70	975 Hamilton
[12]Silverberg, Joseph S., Jr.	San Francisco	LD 46–11	232 Branner
Silvius, Herbert	Sacramento	LD 91+66	248 Toyon-*1178*
[4]Simcoe, Julia	Belmont	Pol. Sci. gr.	Menlo Park-mp
A.B., Trinity, 1924			
[23]Simmons, Burt Orin	Los Angeles	LD ‡ 20–17	56 Encina
Simmons, Elizabeth C.	Sacramento	Fr. 125+68	Kap.Kap.Gamma-*1354*
[5]Simmons, S. Bradford	Sacramento	Ed. G.A. 138–7	Zeta Psi-*B*
Simon, Benjamin	Washington, D.C.	Chem. ‡ 29–4	22 Sequoia
[1]Simon, Ralph Jay	Mina, Nev.	M.E. 101·15+27	481 University-p
Simons, Charles Cochran	Los Angeles	LD sp. 39+28	348 Encina-*1074*
[12]Simons, Herbert Rule	Riverside	Min. gr.	Delta Tau Delta-*1363*
A.B., Stanford, 1923			
Simonsen, Lauretta Christine	Palo Alto	Econ. ‡ 43–3	535 Homer-p
Simonton, Dorothy Jean	Wendell, Ida.	Hist.45·135+41	D.DeltaDelta-*1325*
A.B., Stanford, 1924			
Sims, Francis LeRoy, Jr.	Stockton	Econ. 36·94+70	249 Branner-*737*
[5]Singer, Louis	New York, N.Y.	LD 42+4	445 Encina
[12]Skiff, Miriam Elizabeth	Campbell	Fr. 90·20–4	228 Roble
[4]Slater, Kenneth Norton	MountainView	Educ. 73·62+60	Mt. View-mv
Slingerland, Jacob	Kasson, Minn.	Hist. 52·136+117	111 Toyon-*1181*
A.B., Stanford, 1924			
Sloan, LeRoy	San Jose	LD 139+15	301 Branner
[1]Sloggett, Richard Henry	Lihue, Hawaii	LD 8–15	325 Encina
[12]Sloss, Richard Louis	San Francisco	Hist. 180+208	212 Branner-*1059*
A.B., Stanford, 1924			
[3]Slosson, Albert Edward	Palo Alto	LD 70–23	788 Palo Alto ave-p
[5]Slosson, Blanche Hicks	Los Angeles	Hist. 9·128+146	241 Fulton-p
[2]Smead, Armour Langdon	Los Angeles	Min. 26·4–1	133 Branner
[1]Smiley, Edward Forbes	Los Gatos	Educ. gr.	Los Gatos-lg
A.B., Harvard, 1916; A.M., Columbia, 1917			
[5]Smith, Albert Edward	Sacramento	LD 26·88+12	Zeta Psi-*B*
Smith, Alice London	Los Angeles	Econ. 92·61+76	349 Roble-*534*

[12]Smith, Alice Myrmida KansasCity,Mo. Econ.-Jn.135·48+41 331 Roble-*534*
A.B., Stanford, 1924
Smith, Archie Alexander Palo Alto Law gr. 902 Scott-p
A.B., Stanford, 1924
[4]Smith, Beverly Wilma Anaheim Sch. Ed. gr. *237* Roble
A.B., Pomona, 1924
Smith, Cecil Jules Los Angeles Pre-Med. 143+2 134 Toyon
[4]Smith, Charles George Siler City, N.C. Engl. gr. 211 Toyon
A.B., Wake Forest, 1913; A.M., Pennsylvania, 1920; A.M., North Carolina, 1921
Smith, Charles Herbert Saratoga M.E. gr. 38 Sequoia-*957*
A.B., Stanford, 1923, Engineer, 1924
Smith, Clair Curtis Vancouver, B.C. LD 90+37 525 Lytton-*538*
[1]Smith, Clayton Harrison Torrance LD ‡ 7–8 52 Encina
[4]Smith, Dorothy Harrel Marshall, Mo. Engl. gr. 159 Roble
A.B., Iowa, 1922
Smith, Earle Frederick Palo Alto Econ. 126·47+2 1001 ForestCt.-p
Smith, Edgar Tevis Los Angeles Law 135+48 PhiKap.Sigma-*1306*
Smith, Edward Anderson Palo Alto LD 53+27 330 Palo Alto ave.-p
[34]Smith, Erna Fresno Hist. gr. 361 Roble
A.B., Stanford, 1924
Smith, Everett Russell *Los Angeles LD 29–30 Chi Psi-*588*
Smith, Francis Albert Palo Alto Chem. gr. 600 Lincoln-p
A.B., Stanford, 1922, A.M., 1923
[4]Smith, Frank B. Monticello, Mo. Educ. gr. 467 Melville-p
B.S., Missouri, 1912
[12]Smith, Frank Lee Palo Alto C.E. 45·67+16 415 Lytton-*706*
[4]Smith, Fredrick Young Los Altos LD 30+5 969 University
[12]Smith, George James Menlo Park Geol. 180+134 RFD 112, mp
A.B., Stanford, 1924
Smith, George Keil Vallejo LD 122+35 219 Toyon-*1231*
[3]Smith, H. Perry Palo Alto LD 11·63+15 1001 Forest Ct.-p
Smith, Howard Carlisle Palo Alto LD 136+105 1335 Cowper-p
Smith, I. M. Scott San Francisco Law 181+71 Los Altos-la
A.B., Stanford, 1924
Smith, Irving Levere Santa Cruz LD 37–6 *328* Encina-*693*
[1]Smith, J. Howell Big Creek Econ. gr. 219 Encina
A.B., Stanford, 1923
[2]Smith, James Holland Santa Barbara Educ. 45–9 *257* Toyon
[4]Smith, John Lyman Oakley, Ida. Hist. gr. 948 Ramona
A.B., Utah, 1919
[13]Smith, Laura Parsons Menlo Park LD 47–5 Box 223, mp
Smith, Lemuel Coats, Jr. Palo Alto M.E. sp. 10·168+1 *202* Union-*545*
[4]Smith, Leslie Gaines San Jose Sch. Ed. gr. 798 So. 8th, SJ-sj
A.B., Stanford, 1914, A.M., 1915

Smith, Lucius Dent	Los Angeles	Econ. 80·44+31	50 Encina av.-*1335*
[4]Smith, Margaret C.	Scottsdale, Ariz.	Chem. ‡	257 Roble
Smith, Norwood B., Jr.	Woodside	Law 133–4	Delta Chi-*1304*
Smith, Pearl Mabry A.M., Wisconsin, 1916	San Francisco	Med. gr.	2418 Washington, SF-sf
[5]Smith, Philip Grey A.B., Stanford, 1923	Los Molinos	Law gr.	231 Union
[12]Smith, Ralph Day A.B., Stanford, 1924	Hutchinson, Kans.	C.E. 113·80+3	319 Union-*1296*
[5]Smith, Raymond Warner	Logansport, Ind.	Pol. S. 116·57+30	536 Bryant-p
[1]Smith, Ross Stewart	Palo Alto	LD 89+21	920 Waverley-p
Smith, Ruth Althea	Ithaca, N.Y.	LD 42+10	372 Roble
[14]Smith, Seymour P. E.	Pacific Grove	LD 48+43	427 Encina
Smith, Stacy H., Jr.	Pasadena	LD 40+47	210 Encina
[4]Smith, Stephen E. B.S., Montana State College, 1920	Scappoose, Ore.	Educ. gr.	219 Toyon
[134]Smith, Wayne Mingus	Big Creek	LD 59–6	Zeta Psi-*B*
Smith, William Melvyn	Alhambra	LD 43+13	223 Encina-*1197*
Smythe, Marcus Loomis	Cleveland, O.	LD 26–16	317 Encina
Snedden, Ruth	Yonkers, N.Y.	LD 92+68	KappaAlphaTheta-*1336*
[23]Snell, J. Hall	Browns Valley	Law 165+8	340 Branner
[12]Snitjer, William Chandler	San Jose	LD 13·47+30	Cupertino
Snook, Edward Andrew	Hood	LD 42+31	349 Encina
[1]Snow, Byron Reginald	Palo Alto	Law ‡ 8+5	1320 Middlefield-p
Snow, Jack Wynford	Santa Ana	LD 45+25	127 Encina
[1]Snyder, Charles Anthony	Palo Alto	LD sp. 16–3	1044 Bryant-p
[12]Snyder, Evelyn H.	Stanford Univ.	LD 40+11	8 Alvarado-*106*
[23]Snyder, Harry Lay	Palo Alto	LD 92–33	733 Addison-p
[4]Snyder, Lucille Holbrook	San Jose	Sch. Ed. 99·36+33	Roble
Snyder, William Gilman	Jackson	LD 37–21	248 Encina
Soderstrom, Edward M.	Medford, Ore.	LD 43+44	139 Encina-*1230*
Sollars, Maxine Elizabeth	Woodbridge	LD 23·60+*32*	Alpha Omicron Pi
Solomon, Fred Frank	Venice	LD 90+9	Zeta Psi-*B*
[5]Somavia, J. Ramon, Jr.	Salinas	LD 37+25	337 Encina
Somerfield, Harry A. A.B., Stanford, 1921	Cincinnati, O.	Med. gr.	2321 Sacramento, SF-sf
[5]Somers, Melvin R. A.B., Stanford, 1923	Hollywood	Med. gr.	511 Encina-*862*
[2]Sommer, Edward Henry	Weiser, Ida.	LD	Encina
Sommer, Herbert Lemle	San Francisco	LD 92+81	139 Branner-*979*
Somner, Frank George	Bishop	LD 44–11	353 Encina
[5]Soper, Harold Calhoun A.B., Stanford, 1923	Palo Alto	Law gr.	Phi Kappa Psi-*1337*

[124]Soper, Laura DeWitt A.B., Emporia, 1915	Los Gatos	Engl. gr.	281 Addison
Southworth, Harry Fox	Prescott,Ariz.	LD 39–16	306 Encina
Spangler, Raymond L.	So. San Francisco	Econ.-Jn. 136+98	540 Encina
[5]Sparks, Dale Darrell A.B., Stanford, 1923, A.M., 1924	Los Angeles	Geol. gr.	627 Emerson-p
[12]Spaulding, Harold Sheerer A.B., Stanford, 1924	Costa Mesa	M.E. 52·154+124	73 Sequoia-*611*
Spellacy, Edmund Frank	Los Angeles	LD 40+17	124 Encina
[4]Spence, J. Edwin Litt.D., Grove City, 1917	Boise, Ida.	Sch. Ed. gr.	329 Hawthorne
[27]Spencer, Emerson Lane	Modesto	LD 11+2	318 Encina
[4]Spencer, Hazel Webster A.B., Stanford, 1902	Sierra Madre	Engl. gr.	270 Kellogg-p
[5]Spencer, Percival Innes V.	Los Angeles	Law 146+93	Branner-*881*
[5]Spencer, Robert Phillip	Hollywood	Law 170+54	Los Altos-la
Spilman, Elizabeth Brewer A.B., Stanford, 1922, J.D., 1924	Palo Alto	Law gr.	KappaAlphaTheta-*1336*
Spradling,LeRay, Jr.	Independence,Kans.	LD 42+28	459 Homer-p
[4]Sprague, Edith Marguerite A.B., Brown, 1916	Turlock	Educ. gr.	266 Roble
Spring, Carl William	Cupertino	LD 125+10	Cupertino-c
[23]Spring, Willard Carlton	Los Angeles	LD 2–8	321 Encina
Springer, John Young	Palo Alto	LD 48+81	129 Emerson-p
Springer, Norman Arthur	Upland	LD 41–4	218 Encina
Sproul, Theodore Woods	Palo Alto	LD 41+4	433 Kipling-p
Sproull, Henry Franklin A.B., Stanford, 1923, Engineer, 1924	Los Angeles	Chem. gr.	Beta Theta Pi-*1335*
[1]Spurlock, Horace Eldred A.B., Stanford, 1921	Covelo	Geol. gr.	520 Encina
[7]Staffelbach,Elmer Hubert A.B., Stanford, 1924	Palouse,Wn.	Educ. gr.	1115PA., M-*1273*
Stafford, Claude Cecil A.B., Stanford, 1924	Long Beach	Pre-Clin.88·95+22	214Union-*1017*
Stafford, Una	Twin Falls, Ida.	LD 47+45	227 Roble
[5]Stanford, Leland Ghent A.B., Stanford, 1924	Mayfield	Law gr.	1201PA., CT-*20*
Stanley, Florence Ellen	Palo Alto	LD 86–4	269 Hawthorne-p
Stanley, Raymond Solon	Cleveland,O.	LD 94+50	32 Encina-*527*
[12]Stanton, Frank Cyril	San Francisco	LD 66–9	210 Branner-664
[4]Stanton, Sara	San Mateo	Hist. ‡	428 B, SM-sm
[12]Stapleton, Murray M.	Jenner, Canada	LD 15–22	62 Encina
Starks, Dorothy Johanna A.B., Stanford, 1924	Palo Alto	Zool. gr.	Manzanita-*26*

Starr, Walter Augustus, Jr. Piedmont Law 20·164+180 DeltaKappaEps.
Stayner, Paul Lewis Salt Lake City, U. Fr. gr. 603 Middlefield-p
A.B., Stanford, 1924
Stebbins, Margaret Oakland LD 46+29 245 Roble
Stedman, James Hunt Palo Alto LD ‡ 28+12 1818 Bryant-p
Stedman, Morgan Palo Alto LD 29–11 1320 Byron-*524*
Steele, Archie Trojan Boise, Ida. Econ.-Jn. 185+214 433 Encina
A.B., Stanford, 1924
[124]Steele, Gurdon Donald Lodi LD 99–11 235 Branner-*983*
Steffen, Theodore John Portland, Ore. Econ.97·88+14 DeltaKappaEps.-*O*
A.B., Stanford, 1924
[234]Steil, Melville P. Nenana, Alaska LD 32+18 1336 Webster-p
[23]Steinback, John Ernest Salinas Engl.-Jn. 73+23 514 Encina-*1263*
Steinbeck, Mary Blanch Salinas LD 81+34 Alpha Phi-*1260*
[4]Steinberg, Amy Jane Portland, Ore. Sch. Ed. gr. 359 Roble
A.B., Washington, 1923
[12]Steindorf, Stanley Archie Campbell Law gr. 224 Toyon-*555*
A.B., Stanford, 1922, J.D., 1924
Steinweden, John Benjamin Lindsay LD 45+51 332 Encina
Stephens, Bruce Miller Alameda LD 46+28 308 Encina
[124]Stephens, John Stewart Los Angeles Pre-Med.117+35 PhiKap.Psi-*1333*
Stephens, Philip Harvey Los Angeles Law 124+16 Phi Kappa Psi-*1333*
[5]Sterling, Theodore Kesler Pasadena Law gr. SigmaAlphaEps.-*1305*
A.B., Stanford, 1924
Stevens, Howard Percy Rockford, Ill. Econ. 183+131 Theta Chi-*1383*
A.B., Stanford, 1924
Stevenson, Archie M. Portland, Ore. Pol. S. 92–13 214 Branner
[2]Stevenson,Arthur Barker San Francisco LD 14–11 119 Encina
Stevenson, Carl Bering Cupertino LD 44+58 Cupertino-c
Stevenson, Eugene Maxwell Centerville LD 89+10 Sig.AlphaEpsilon-*1305*
[12]Stevenson, George H. San Francisco LD 15–19 Delta Kappa Epsilon
Stevenson, Harry Wyle Centerville LD 27–3 307 Encina
[2]Stevenson, Henry Coffin San Francisco LD 14–8 119 Encina
[4]Stevenson, Ruby Walser Los Angeles Hist. 45·117+9 840 Bryant-p
Steward, Harry, Jr. Los Angeles LD 83–23 Phi Kappa Psi
Stewart, Arthur C. Pasadena LD 45+33 405 Encina
Stewart, Donald Kenneth Palo Alto M.E. 201+69 311 Fulton-p
Stewart, Edward Lyndon Newman,Ga. Econ. gr. 543 Encina-*525*
B.S., Arizona, 1923; A.M., Stanford, 1924
Stewart, Francis Samuel Palo Alto Chem. gr. 1431 Waverley-p
A.B., Stanford, 1923, A.M., 1924
Stewart, Gerald Glenn Los Angeles LD 43+4 20 Encina-*513*
Stewart, Holmes Richter Sanger Econ. 135+91 Alpha Sigma Phi

[1]Stewart, Hugh Leo Paul	Ambridge, Pa.	C.E. sp. 78–24	Delta Chi
Stewart, James Alexander	El Segundo	LD 36–14	425 Encina
Stewart, James Douglas	Pasadena	Econ. 102·45+16	DeltaUpsilon-*643*
*Stewart, L. Lincoln A.B., Stanford, 1914	Watsonville	Geol. gr.	Watsonville-w
[4]Stewart, Laura Frances A.B., Kansas, 1916	Walthena,Kans.	Sch. Ed. gr.	109 Roble
Stewart, Muriel A.B., Stanford, 1924	Tempe, Ariz.	Med. gr.	118 Roble-*829*
[4]Stewart, Nadene Parker	Santa Clara	Educ. ‡	1217 Harrison, SC-sc
[4]Stewart, W. Blair A.B., Reed, 1921	Palo Alto	Econ. gr.	1340 Byron
Stewart, Walter Boyd	Nicasio	LD 12–9	358 Encina
Stichter, Genevieve Susan	Cupertino	Fr. 156+218	Cupertino-c
[13]Stickney,Edith Pierpont A.B., Vassar, 1919; Ph.D., Stanford, 1924	Richmond,Ind.	Hist. gr.	Madroño
[12]Stikeman, Donald Frank	Santa Cruz	LD 108+38	447 Encina-*1107*
*[34]Stipp, Thomas F. A.B., Stanford, 1922	Fellows	Geol. gr.	Fellows-f
[1]Stockam, Willis Miller	Medford,Ore.	LD 0–13	210 Encina
Stockbridge, Glenn Henry	Los Angeles	LD 107+127	260 Toyon-*605*
Stockton, Andrew B. A.B., Stanford, 1923	Grangeville, Ida.	Med. gr.	2235 Webster, SF-sf
[4]Stoddard, Abbie Otis A.B., Wellesley, 1905	Pasadena	Chem. gr.	117 Cowper
[12]Stoddard, Harvey Charles A.B., Stanford, 1924	Oakland	M.E. 73·113+16	243 Toyon-*605*
[3]Stollery, David John, Jr.	San Mateo	LD 15+3	920 Palm, SM-sm
Stollmack, ArthurT. A.B., Stanford, 1924	Hollywood	Law 94·86+67	211 Union
[1]Stone, Calvin Perry A.B., Indiana, 1915, A.M., 1916; Ph.D., Minnesota, 1921	Palo Alto	Bact. gr.	707 Addison
Stone, John Bear A.B., Stanford, 1924	San Francisco	Chem. 181+62	237 Coleridge-p
[4]Stone, William Samuel A.B., Illinois, 1919	Phoenix, Ariz.	Educ. gr.	114 Toyon
Stoner, Robert Meiley	Oakland	LD 81+6	Phi Sigma Kappa-*538*
[4]Stoner, Sanford Leland M.S., Chicago, 1909	Sacramento	Chem. gr.	Stanford Univ.
[5]Storey, Alfred Dean	Merced Falls	LD 93+17	537 Encina-*1121*
Storie, William Galbraith	San Jose	LD 60·40–2	44 Encina
Strain, Harold Henry A.B., Stanford, 1923, A.M., 1924	Mayfield	Chem. gr.	Mayfield-m
Stratton, Charles Cullen	Downey	LD 89+51	AlphaTauOmega-*1384*

[4]Stratton, Charles William	Palo Alto	LD ‡	1505 Emerson-p
[12]Straube, Herman William	Los Angeles	LD 84–8	Phi Kappa Sigma-*1306*
Straus, Louis, Jr.	San Francisco	LD 34+6	429 Encina
Stray, George Rose A.B., Stanford, 1923, Engineer, 1924	Campbell	E.E. gr.	73 Sequoia
Street, Webster Finley	Los Angeles	LD 89+49	723 Hamilton-p
Strickler, Dewey Loyal A.B., Stanford, 1922, J.D., 1924	Long Beach	Law gr.	349 High-p
[4]Strobeck, Edgar W.	Tucson, Ariz.	LD ‡	421 Kipling
[12]Strobel, Grace May A.B., Stanford, 1924	Hanford	Econ. 8·173+137	Sig. Kappa-*1327*
Strong, Artemas Jacob A.B., Stanford, 1924	Santa Paula	Pre-Clin.186+119	Sig.Al.Eps.*1305*
Strong, Edward William	Gresham,Ore.	Phil. 158+179	55 Sequoia-*542*
Strong, Kenneth C.	Long Beach	LD 40+26	418 Encina
Stroup, Cranston LeRoy	Cleveland, O.	Engl. 130+38	1651 Webster-p
[5]Stroup, Margretta E.	Cleveland, O.	LD 32+32	161 Roble
[5]Stroup, Russell Cartwright	Cleveland, O.	Law 147+58	1651 Webster-p
Strouse, Carolan Mathilde	Altadena	Hist. 18·139+202	110 Roble-*941*
Struble, George Ralph	Penryn	LD 44+12	230 Encina
Struble, Homer Pearson A.B., Stanford, 1922	Penryn	Med. gr.	S.FranciscoHosp.,SF-sf
Stucky, M. Ruth	Sparks, Nev.	Span. 144+215	382 Roble-*1057*
Suffern, William Henry	Decatur, Ill.	LD 85+23	Delta Chi
[4]Sugars, Nell Muriel A.B., Stanford, 1915	Los Angeles	Sch. Ed. gr.	1027 Bryant-p
Sullivan, Cletus Stephen A.B., Stanford, 1922	Santa Clara	Med. gr.	2321 Sacramento, SF-sf
Sullivan, Lloyd Lawrence	Los Angeles	LD 44+44	8 Dolores-*595*
[1]Sullivan, Willard E. A.B., Stanford, 1922, A.M., 1924	So. San Francisco	Chem. gr.	19 Salvatierra
Summers, David Selden A.B., Stanford, 1924	Stanford Univ.	C.E. 45·137+42	312 Union
Summers, Frances Maude A.B., Stanford, 1924	San Jose	Sch. Ed. gr.	Chi Omega
Sumner, Charles Hawley	Palo Alto	LD 91+29	760 University-p
Sumner, William Artell	San Jose	Pre-Med.88·47+13	518S.11th,SJ-sj
Sutro, John Alfred	San Francisco	LD 87+20	203 Toyon
[23]Sutton, Reuel Robbins	San Francisco	LD 30+7	119 Encina
Sutton, Thomas Leonard A.B., Stanford, 1921	Novato	Med. gr.	2323 Sacramento, SF-sf
Swabey, Clarence Stanley A.B., Stanford, 1924	Palo Alto	C.E. 180+89	1055 Cowper-p

[1]Swabey, Marjorie Ruth A.B., Stanford, 1923	Palo Alto	Bot. gr.	1055 Cowper-p
Swain, Dorothy Muriel	Stanford Univ.	LD 103+59	10 Mirada-*1153*
[12]Swan, Frederick H.	Stanford Univ.	LD 36+2	Kappa Alpha
[2]Swanson, Morby Carl	Gridley	LD 30–22	4 Sequoia
Swartz, Jacob Pierpont	Allentown, Pa.	Law 170+12	26 Sequoia-*515*
Swayne, William Wager	Paris, France	Chem. 168–4	Phi Kappa Psi-*1333*
Swayze,Doris Christine	Hermiston,Ore.	LD 89+36	351 Roble-*952*
[4]Sweeley, Mary Elisabeth A.B., Dakota Wesleyan, 1919	Mitchell, S.D.	Engl. gr.	934 Emerson-p
[2]Sweigert,Charles Francis	San Francisco	Pre-Med. 65+66	561 Encina
[23]Swetman,Ralph Waldo A.M., Columbia, 1917	Ellensburg,Wn.	Educ. gr.	Menlo Heights-*908*
Swift, Howard Newman	Tokyo, Japan	LD 40·91+13	127 Branner-*1204*
Swift, Jesse Derbert	Arlington	LD 44+12	304 Encina-*1049*
Swinehart,Charles Robert	Rochester,Ind.	LD 60–30	240 Branner
Swing, Horace Everett	San Bernardino	Law 133+21	Delta Tau Delta
[12]Swoboda, Lois Manly	Palo Alto	LD 12·56+44	373 Channing-p
Sylva, Edward Nuku	Honolulu, T.H.	LD 45·78–6	436 Encina-*545*
Symonds, Henry Gardiner A.B., Stanford, 1924	Hinsdale, Ill.	Geol. 192+174	KappaSigma-*1326*
[5]Taam, Wu	Canton, China	Econ. 141+28	Chinese Club-*1257*
[23]Taber, Theron Simeon	FortWorth,Tex.	M.E. ‡ 27+19	Ramona Hotel-p
Tackabury,GeorgeWesleigh	Los Angeles	LD 4·92+47	Delta Upsilon-*1353*
Taft, Stanley Byron	Salinas	LD 79+32	34 Lasuen
Tainter, Maurice Lane A.B., Stanford, 1921, A.M., 1924	San Francisco	Phar. gr.	S.F.Hospital, SF-sf
[234]Tamplin, Constance	Palo Alto	S. Biol. 24·147+111	659Midlfi'ld-p
Tamplin, William Ward A.B., Stanford, 1922, Engineer, 1924	Palo Alto	Min. gr.	659 Middlefield-p
[5]T'an, Shulin Lincoln A.B., Peking Government Teachers College, 1922; A.M., Stanford, 1924	Peking, China	Pol. S. gr.	Chinese Club-*11*
[4]Tanner, Vasco M. A.M., Utah, 1920	St. George, U.	Ent. gr.	465 Hamilton-p
Taormina, Anthony	Mountain View	LD 33–14	Mountain View-mv
Tarbell, Helen I. A.B., South Dakota, 1908; A.M., Stanford, 1924	Watertown, S.D.	Educ. gr.	Madroño
[5]Tarleton, Colby Dutot	Honolulu, T.H.	C.E. 120·51+46	431 Encina
[2]Tarr, Cedric Winship	Sierra Madre	LD 45+21	851 Lytton-p
[3]Tashiro, Henry T.	Kumamoto, Japan	LD 19–22	105 Emerson-p
Tashijian, Harry Martin	Cutler	LD 28–22	237 Encina
[23]Taylor, Albert Ray	Palo Alto	LD 25+19	116 Encina
Taylor, Byron Madison	Gage, Okla.	LD 73+3	512 Encina-*711*

[234]Taylor, Della LaRue — Los Angeles — Engl.-Jn. 23·100+57 — D.D.Del.-*1325*

Taylor, Dwight Warren — Los Angeles — Hist. 180+37 — Al.TauOmega-*1384*
A.B., Stanford, 1924

[5]Taylor, Ethel — Corvallis, Ore. — Germ. gr. — Kingscote-*1213*
A.B., Michigan, 1906

Taylor, Everett Ridley — Hollywood — LD 87–1 — 112 Branner-*545*

Taylor, Howard Rice — Mayfield — Educ. gr. — 170 Stanford, M-m
A.B., Pacific, 1914; A.M., Stanford, 1923

Taylor, James Blackwell — Los Angeles — LD 101+115 — 265 Coleridge-p

[5]Taylor, Kenneth Maynard — Troy, Pa. — Pre-Med. gr. — 19 Salvatierra-*927*
A.B., Oberlin, 1923

[234]Taylor, Richard Thurston — Los Angeles — Med. gr. — Phi Kappa Psi-*1333*
A.B., Stanford, 1922

[4]Taylor, Wallace Matthews — Hugo, Colo. — Educ. gr. — 846 Middlefield-p
A.B., College of Idaho, 1915

[5]Taylor, William Haydn — Los Angeles — Law gr. — Laurel Court, MP-mp
A.B., Stanford, 1923

[12]Taylor, Zenas Howland — Stanley, N.D. — Law gr. — 213 Branner-*116*
A.B., Macalester, 1920

[5]Teague, Milton McKevett — Santa Paula — Ent.134+91 — SigmaAlphaEps.*1305*

Teeguarden, John Miles — Richmond, Ind. — Econ. 43·138+20 — 233 Union-*716*
A.B., Stanford, 1924

[12]Tempel, William Edward — Los Angeles — Econ. 24·167+132 — 247 Branner
A.B., Stanford, 1924

[23]Templeton, Knight Claywell — Hughson — LD 11–11 — *332* Encina-*I*

[12]Templeton, Robert Lyman — Palo Alto — Law gr. — 535 Fulton-p
A.B., Stanford, 1921, LL.B., 1924

[5]Teng, Chun-Kao — Lanchow, China — Phil. 67·98+28 — Chinese Club-*11*

[1]Tennant, Robert Jones — Colusa — LD 104+76 — 83 Sequoia

[5]Terman, Helen Leclare — Stanford Univ. — Sch. Ed. gr. — Delt.DeltaDelta-*1325*
A.B., Stanford, 1924

[4]Terwilliger, Eugenia G. — Highland, N.Y. — LD ‡ — Roble

Thalheimer, Ulrich S. — San Francisco — E.E. gr. — 210 Union
A.B., Stanford, 1920, Engineer, 1924

Thayer, William Lyman — Upland — M.E. 160+168 — 121 Toyon-*964*

[1]Thede, Maurice Edwin — Madera — LD 91+23 — Sigma Nu

[23]Thomas, Aimee Belle — Palo Alto — LD 30+14 — 258 Roble

[12]Thomas, Arthur Blake — SaltLakeCity,U. — Law 14·130+17 — PhiKap.Sig.-*1306*

[12]Thomas, Earle Alling — Pasadena — Geol. 73·108+62 — 859 Lytton
A.B., Stanford, 1924

[4]Thomas, Frank Waters — Fresno — Educ. gr. — 224 Union
A.B., Indiana, 1905; A.M., Illinois, 1910

[4]Thomas, Jean Anne — Gilroy — Educ. ‡ — Roble

Thomas, John Oglesby — Portland, Ore. — Pre-Med. 101·37+37 — 1416 Tasso-p

Thomas, Lewis Adams, III	Visalia	LD 48+27	305 Encina-*1015*
Thomas, Mark Everett	Los Gatos	LD 46·48+48	333 Encina
Thomas, Roscoe	Pasadena	LD 52+60	338 Encina
Thomas, S. Benson	Mill Valley	LD 51+39	347 Encina
[23]Thompson, Ethelind Grace	San Diego	LD 33+40	167 Roble-*819*
[1]Thompson,F.Gail	Spg.Coulee,Alta.,Can.	LD 18·73+89	Pi Beta Phi
[1]Thompson,Frank Edw.	Honolulu, T.H.	LD 29–30	526 Bryant
[5]Thompson, George W.	Hollywood	Hist. 20·144+32	AlphaDeltaPhi-*J*
Thompson, Harlan Steele	Billings, Mont.	LD 152+61	Sigma Chi-*628*
Thompson,Henry Webb	Glendale,Ariz.	LD 77+113	13 Salvatierra-*72*
Thompson, Kenneth Joseph	Red Bluff	Pre-Med. 138+130	524 Encina
Thompson, Kenneth Wade	Fresno	LD 91+88	9 Dolores-*554*
[4]Thompson, Leela	Pueblo, Colo.	LD sp.	Roble
[234]Thompson,Lewis Clay A.B., Earlham, 1921	Russiaville,Ind.	Educ. gr.	525 Channing-p
Thompson, Louis Caryll A.B., Stanford, 1924	Los Angeles	Econ. 181+116	61 Sequoia-*1236*
[234]Thompson, Mary Irene	Hollywood	Engl. 135·39+28	209 Roble
Thomson, Elwyn Arthur	Palo Alto	LD 40·43+39	333 Waverley-p
Thomson,Frederick David	Los Angeles	LD 81+26	AlphaDeltaPhi-*J*
Thomson,Robert Edward	Los Angeles	LD 51+14	202 Encina
Thomson, William Lyon A.B., Stanford, 1924	Modesto	Pre-Cl.12·197+97	1542J'ksn,SF-sf
[23]Thornton, Jack Welland	Winnipeg,Can.	LD 26–2	303 Encina
[1]Thornton, Walter Daniel A.B., Stanford, 1924	San Jose	Econ. 180+172	243 N. 13th, SJ-sj
[124]Thornton, WilliamC.	San Francisco	LD 24+2	244 Encina
Thorpe, Allene Warden	Lamar, Mo.	LD 13·75+49	D.Delta Delta-*1325*
Thorpe, Spencer	Los Angeles	LD 47+21	400 Encina
[3]Threlfall, Donald Richard	Modesto	LD ‡14+11	141 Encina
Thygeson, Phillips	Palo Alto	Phyl.-Med.187+152	222Kngsly.-p
[23]Tibbe, Cuthbert Jack A.B., Stanford, 1924	Oakland	Econ.94·71+16	BetaThetaPi-*1335*
[4]Tierney, Edward L. A.B., Indiana State Normal School, 1923	Miami,Ariz.	Math. gr.	149 Cowper-p
[4]Tilton, Edwin B. A.B., Stanford, 1923	San Diego	Educ. gr.	601 Webster
Timby,Henry Edward	SaltLakeCity,U.	Econ. 124+18	PhiKappaSig.-*1306*
[2]Timmons, Colin Willis	Los Angeles	Phil. 93·41+51	Sigma Chi
[23]Timpany, Charles Russel A.B., Stanford, 1924	Santa Clara	Chem. gr.	1775 Lexington, SC-sc
Tippett, George William	San Francisco	Pre-Med.100·44+0	456Bdrk.,SF-sf

[4]Tipton, Jacob H.	Mayfield	Sch. Ed. gr.	Mayfield-m
M.S., Utah, 1919			
Titus, Robert Chadwick	Berkeley	Econ. 139+6	250 Toyon
[4]Tobin, Saidie Mae	Fresno	Sch. Ed. gr.	Madroño
A.B., Fresno State Teachers College, 1923			
Tobriner, Mathew Oscar	San Francisco	Econ. gr.	217 Branner-*811*
A.B., Stanford, 1924			
[3]Tod, Roy Stewart	Stanford Univ.	LD 53–35	18 Alvarado-*666*
[1]Todd, Edwin Thayer	Palo Alto	M.E. 73·147+11	635 Homer-p
A.B., Stanford, 1924			
[1]Todd, Harold Elworthy	Hollywood	LD 87–11	SigmaAlphaEpsilon
Todd, Harrison Tyler	San Francisco	LD 41–10	317 Encina-*M*
[5]Todd, Harry Day	Palo Alto	Fr. 160+147	1650 Waverley-p
Todd, Henri Edwin	Kearney, Neb.	LD 41·40–11	216 Encina-*582*
Toffelmier, Bruce Cormack	Sebastopol	LD 41–10	344 Encina
Tognazzini, Aileen V.	Santa Barbara	LD 80+32	Roble
Tognazzini,Roland Erwin	San Francisco	Law 181+49	Delta Tau Delta
A.B., Stanford, 1924			
[5]Toland, John DeMoss	Los Angeles	LD 94–9	63 Sequoia-*634*
Toll, Marian Louise	San Diego	LD 8·96+97	280 Roble
[134]Tolman, B. Hildegarde	Stanford Univ.	LD 58+11	Alpha Phi-*1387*
[5]Tolman, Frank Branson	Stanford Univ.	Geol. 148+106	San Juan-*830*
[4]Tople, Nina Asher	Pasadena	Engl. gr.	10 Salvatierra
A.B., New Mexico Normal School, 1922; B.S., Kansas State Teachers College, 1923			
[4]Topoozian, Varsen	Fresno	Econ. gr.	Roble
A.B., California, 1923			
Torrey, Donald Max	Fresno	Hist. 186+186	124 Toyon-*892*
A.B., Stanford, 1924			
[4]Tostenson, Frederick O.	Fresno	Germ. gr.	219 Toyon
B.S., Haverford, 1911			
Towers, Harold Dreher	Pasadena	LD 40–4	251 Encina-*35*
[4]Towle, Theodora Avery	Santa Barbara	Cl. Lit. gr.	176 Roble-*621*
A.B., Mt. Holyoke, 1905			
[12]Townsend, Arthur Irving	San Jose	Law gr.	1505 Alameda, SJ-sj
A.B., Stanford, 1921			
Toyoda, Hideo	Palo Alto	LD 54+19	Box 285, p
[5]Trace, W. Eugene	Santa Barbara	Econ. 77–16	559 Cowper-p
[234]Trago, Eugene N.	Stanford Univ.	Econ.54·109+52	Th.DeltaChi-*1331*
Trahern, James William	San Leandro	C.E. gr.	1000 S. 7th, SJ-sj
A.B., College of the Pacific, 1923			
[8]Trattner, Harold David	Los Angeles	LD 11+8	444 Encina
Traugh, Audrey Minnie	Adin	LD 84+82	GammaPhiBeta-*1337*
[5]Trautz, Rose Ella Louise	Cottonwood	LD 79+30	253 Roble-*812*

Tremaine, Glendon Louis	Los Angeles	Econ. 15·120+39	Sigma Chi-*628*
[12]Tremaine, Harry Raymond A.B., Stanford, 1923	Los Angeles	Law gr.	Sigma Chi-*628*
[1]Tresidder, Don A.B., Stanford, 1919	Camp Curry	Med. gr.	1134 Jackson, SF-sf
Triest, Robert Joseph	Los Angeles	Law 129+7	39 Sequoia-*1020*
[4]Trimble, Eunice A.B., Vanderbilt, 1922	Stanford Univ.	Sch. Ed. gr.	Kingscote
[5]Trippet, Oscar A., II	Topanga	Law 9·112+28	KappaAlpha-*1356*
[12]Trojanovich, Lloyd Irvin	Globe, Ariz.	LD 25–15	402 Encina
Trombetta, Julius Caesar	Manteca	LD 43+27	359 Encina-*1194*
Trowbridge, Elizabeth Grace A.B., Mills, 1923; A.M., Stanford, 1924	Fresno	Econ. gr.	Madroño
Troyer, Gifford LeRoy	Hollywood	LD 45+37	122 Encina
True, Cecil Leslie	Spokane, Wn.	LD 87+22	Theta Chi-*1383*
[23]Truman, John Edwards	Oakland	LD 29+3	203 Encina
Tsao, Song-Ping A.B., National University of Peking, 1921	Hofei, Anwhei, China	Econ. gr.	Chinese Club-*960*
[5]Tsi, Yu Fang	Chekiang, China	Engl. ‡ 32–9	168 University-p
Tsui, Tsong-Hsun A.B., Stanford, 1924	Ho-Nan, China	Pol. S. 135·45+23	Chinese Club-*11*
Tucker, Norman Millett	Palo Alto	LD 83+24	Phi Gam. Delta-*1324*
Tucker, Orville H., Jr. A.B., Stanford, 1924	Prescott, Ariz.	C.E. 193+160	319 Encina-*M*
[2]Tull, Floyd William	Palo Alto	LD 66–10	912 Cowper-p
Tully, Charles Wallace	Palo Alto	LD 94+6	162 Bryant-p
[4]Tupper, Charles Ralph A.B., Stanford, 1913, A.M., 1923	Miami, Ariz.	Educ. gr.	Hotel Palo Alto
[124]Turner, F. Seymour A.B., Stanford, 1921	San Francisco	Law gr.	11 Union
Turner, Marion Esther A.B., Stanford, 1924	Adelaida	Engl. 185+226	D.DeltaDelta-*1325*
[12]Turner, Richard Reid	San Mateo	LD 7–23	Kappa Sigma-*1326*
Tussing, Ford Marlow A.B., Stanford, 1924	Pasadena	Hist. 181+247	219 Waverley
Tuthill, Helen A.B., Stanford, 1924	Portland, Ore.	Econ. 13·167+189	Delta Gamma
[27]Tutman, Baldo Joseph	Mountain View	Econ. 50·89–1	Mountain View-mv
Tyroler, Frederic Nathan	Los Angeles	LD 91+84	62 Sequoia-*137*
Ullberg, Lloyd Edwin	Turlock	LD 49+21	203 Encina
[5]Ullum, Clarence B. A.B., Indiana, 1923	Indianapolis, Ind.	Sch. Ed. gr.	49 Sequoia
[4]Underwood, Carl Stanton A.B., Illinois College, 1911	Redwood City	Educ. gr.	Redwood City-rc

[12]Uono, Kiyoshi	Japan	Econ. ‡ 25–8	837 Ramona-p
Updegraff, George Gavin	Portland, Ore.	Law 106·68+24	207 Union-*974*
Uppman, Elsa Elizabeth	Santa Clara	LD 46+42	1559 Harrison, SC-sc
Upton, John Roland	San Francisco	LD sp. 38+0	2016 Pacific, SF-sf
[12]Urner, Philip Summerfield	Mount.View	Hist. 124+170	Sigma Chi
[12]Urquhart, Bruce Laurier	Burbank	LD sp. 21+1	University Hotel-p
Urquhart, Ross Alexander	Hollywood	LD 61·43+21	Delta Upsilon
[3]Usui, Rensuke	Japan	E.E. gr.	Japanese Club-*598*
A.B., Tokyo Technical College, 1919			
Vail, Marjorie Nelson	So. Pasadena	LD 37·36–9	Alpha Phi-*1387*
Vallat, Eugene Hopson	Santa Monica	LD 96+55	304 Toyon-*936*
Van Amringe, John David	Geyserville	LD 67+10	245 Branner-*1208*
[4]Van Auken,Elizabeth M.	Hartford,Mich.	LD ‡	451 Lincoln-p
[1]VanDeCarr, William D. B.	Hollywood	LD 58+24	238 Toyon
Vanderkamp, John Francis	San Jose	LD 37–14	935 Park, SJ-sj
Van Deusen, Dudley H.	Emmett, Ida.	LD 78+19	Phi Sigma Kappa-*538*
Van Deusen, Theodore G.	Columbia, Mo.	Ed. G.A. 180+70	Al.TauOm.-*1384*
A.B., Stanford, 1924			
Van Deventer, William C.	Long Beach	Pre Med. 109+115	217 Toyon-*554*
[5]Van Druten,Arthur Alexander	LosGatos	Pre-Med. 90·45+16	Los Gatos-lg
[4]VanGessel,G.Hondius	Amsterdam,Hol'nd	LD ‡	
Van Hook, Stuart Guillot	Santa Monica	Econ. 119+46	PhiKappaPsi-*1333*
Van Horn, Evelyn Adene	Denver, Colo.	Econ. 129+169	AlphaOmicronPhi
[2]VanKeuren, Sidney Sutton	Los Angeles	C.E. 87·95+6	Beta Theta Pi-*1335*
A.B., Stanford, 1924			
[12]Van Norden, Linda	Palo Alto	Engl. gr.	329 Lincoln-p
A.B., Stanford, 1924			
Van Valin, Earle Du Bois	San Mateo	Pre-Clin. ‡ 135·62–11	326 Union
VanVleck, Jule Marine on St.Croix,Minn.		LD 92+46	Kap.KappaGam.-*1354*
VanVorhis, Louis Graves	Corcoran	LD 85+10	Theta Xi-*1355*
[4]Van Voris, William T.	Martinez	Educ. gr.	302 Toyon
A.B., State College of Washington, 1916			
Varian, Russell Harrison	Halcyon	Phys. 143+82	28 Alvarado
[4]Vasche, Gertrude	Merced	LD sp.	712 Waverley-p
[4]Vaughan, Daniel Francis	Tucson,Ariz.	LD ‡	131 Toyon
Vaughan, Frances Robin	Palo Alto	LD 91+79	344 Roble-*1240*
Vaughan, Samuel Edson	Santa Barbara	M.E. gr.	88 Sequoia-*928*
A.B., Stanford, 1923			
[23]Vaughn, Gerald Oliver	Palo Alto	M.E. 115+113	Rockcrusher Rd.,-p
Vaughn, John Orren	Pasadena	Pre-Clin. 184+301	300 Toyon-*545*
A.B., Stanford, 1924			
Verbarg, Dorothy D.	San Francisco	LD 7·99+133	278 Roble
Vermilya, Mildred Glenn	Palo Alto	LD 45·46+51	656 Channing-p

[1]Vernon, William Kirk — Upland — LD ‡ 16–19 — Delta Tau Delta
[4]Vertrees, May — San Jacinto — Span. gr. — 236 Roble
A.B., Stanford, 1912
[12]Vial, Robert Duncan — Miami, Fla. — M.E. 200+93 — PhiDeltaTheta-*1334*
A.B., Stanford, 1924
[4]Vickers, Wallace J. — Nephi, U. — Engl. gr. — Menlo Heights
B.S., Utah Agricultural, 1912
Vigness, Paul G. — Palo Alto — Hist. gr. — 261 Homer-p
A.B., St. Olaf, 1918; A.M., Stanford, 1924
[4]Villadolid, Devgracias — Los Banos, P.I. — Zool. gr. — Pacific Grove-pg
B.Agr., Philippines, 1919, B.S.A., 1922, M.S.A., 1923
Vinetz, Joseph Charles — Los Angeles — Med. gr. — 2515 Webster, SF-sf
A.B., Occidental, 1922
Vinsonhaler,George R. — Stanford Univ. — LD sp. 10·166+6 — 320 Union-*1207*
Virag, Alfred — San Francisco — LD 44+48 — 352 Encina
[12]Voerge, Maurine Grace — Montreal, Can. — Span. gr. — Kingscote-*686*
A.B., Stanford, 1923, A.M., 1924
Vogel, Helen Louise — Fullerton, Neb. — Engl. 98·93+86 — 182 Roble-*1163*
A.B., Stanford, 1924
[4]Vopatek, Stephen H. — NewPrague,Minn. — LD 13+5 — Toyon
Voss, Paul Jerome — Elk Grove — Min. 120·38+20 — 317 Union-*1221*
Vredenburgh, Ruth — Palo Alto — LD 85–1 — Sigma Kappa-*1327*
[12]Vreede, Theodoor F. — Arlesheim,Switz'ld — Phil. gr. — 105 Emerson-p
C.E., Delfte (Holland), 1905
[4]Wachter, Edna Elizabeth — Menlo Park — Cl. Lit. gr. — Menlo Park-mp
A.B., College of the Sacred Heart, 1924
Waggoner,Stephen G. — WichitaFalls,Tex. — Geol. 87·45+15 — 22Sequoia-Bx591,p
Wagner,Charles Norton — Allentown, Pa. — LD 41·51+39 — 332 Encina-*930*
[12]Wainscott,ClintonSchenck — Peru, Ind. — Fr. gr. — Stanford
A.B., Stanford, 1923
Wais, John, Jr. — Merced — LD 50+49 — 136 Encina
Waite, Eric Lyman — Los Angeles — LD 40–10 — 50 Encina
Wakefield,Claude Emerson — Tacoma, Wn. — Law 123·42+42 — Sigma Nu-*1385*
Waldron, Anne Stillman — Los Angeles — LD 39+14 — 158 Roble
Walker, Carroll Dexter — San Francisco — LD 47+55 — 221 Encina
Walker,Eugene Kimball — SaltLakeCity,U. — LD 39+19 — 121 Encina
Walker,Fletcher Loren, Jr. — Westwood — LD 87+36 — Chi Psi-*588*
[1]Walker, George Hall — Palo Alto — M.E. 182+54 — 209 Kipling-p
A.B., Stanford, 1924
[5]Walker, John Carlton — Wilmington,Del. — LD 58+6 — Theta Xi-*1355*
Walker, Kenneth Roswell — Westwood — LD 45+13 — 205 Encina-147
[3]Walker, Phyllis Heath — Palo Alto — Econ. 75·110+174 — 1147 Ramona-p
A.B., Stanford, 1924

[12]Walker, Ramona W. Westwood Sch. Ed. gr. Kingscote,*1219*
A.B., College of the Pacific, 1923
Walker, Roland Douglas Palo Alto Pre-Med. 33·86+58 310 Ramona-p
Walker, Samuel Jeremiah Palo Alto Med. gr. 735 Bryant-p
A.B., Whittier, 1922
[12]Walker, Theodore Sammis Westwood M.E. 60·150+101 Kingscote-*1219*
A.B., Stanford, 1924
[1]Walker, William Brydon Parkville,Mo. Educ. ‡ 12–11 704 Waverley-p
Wallace,Bruce McClain Los Angeles Law gr. 7 Alvarado
A.B., Pomona, 1920
[1]Wallace, Bruce Weldon Long Beach LD 25–19 111 Toyon
[5]Wallace, Hugh H. Auburn Geol. 148+20 527 Encina-*671*
Wallace, Janet Mexico City, Mex. LD 93+111 407 Cowper-p
Wallace, John H., Jr. Stanford Univ. LD 98+45 212 Toyon-*545*
[4]Wallace,Whittier Worthington San Jose Math. gr. 160 So. 12th, SJ-sj
A.B., Stanford, 1921, A.M., 1922
[5]Wallace,William Kenneth San Jose Min. sp. 80+9 1136 Webster-p
Walling,Curtis Reynolds Fresno M.E. 90·49+48 314 Toyon-*554*
[12]Wallis,Lawrence Bergmann Palo Alto Engl. gr. 201Homer-p
A.B., Dartmouth, 1918; A.M., Harvard, 1921
Walsh, Mona Desmond Redwood City Span. gr. Kap.Kap.Gam.-*1354*
A.B., Stanford, 1923
Walsh, Walter Pernau San Francisco LD 59+15 435 Encina
Walter, Russell Lincoln Chicago, Ill. Econ. 183+192 48 Sequoia-*581*
A.B., Stanford, 1924
[12]Wang, Shu Kai Foochow, China Educ. gr. Glenwood,MP-p
A.B., Fukien Christian University, 1920; A.M., Southern California, 1922
Wankowski, Victor Otto Hollywood LD 96+42 119 Toyon-*I*
Ward, Jean Mill Valley LD 91+57 Kap.Kap.Gamma-*1354*
Ward, Murray Arthur Los Angeles Geol. 153+4 KappaSigma-*1326*
A.B., Stanford, 1924
Ware, Margaret Chico Engl. 90·96+159 19 Roble-*893*
A.B., Stanford, 1924
[4]Warner, Gertrude E. Spokane, Wn. LD sp. Roble
[3]Warner, Hal Fred Los Angeles LD 60+2 Phi Kappa Psi
Warner, James Prentice Spokane, Wn. Law 100·105+2 539 Encina-*696*
A.B., Stanford, 1924
Warrington,Peirce Edmund Sacramento LD 99+113 236 Toyon-*605*
Wasson, George F., Jr. SaltLakeCity,U. LD 84+31 PhiKappaSigma-*1306*
[12]Wasson, Virginia F. Watsonville Sch. Ed. gr. 347 Alma-*567*
A.B., Stanford, 1923, A.M., 1924
Waterhouse, Edson Peter San Francisco LD 71–16 Beta Theta Pi-*1335*
Waterman, Joseph Carl San Jose C.E. 190+154 240 Toyon-*6*
A.B., Stanford, 1924

Waters, Max Archie	Chico	LD 53·85+30	533 Middlefield-p
[3]Watkins, Ellen S.	Columbia,S.C.	Educ. ‡ 16+20	159 Roble
Watson, E. Brandon	Shasta Springs	LD 34·44+3	44 Encina
Watson,James Avery	Fond du Lac, Wis.	LD 35+3	364 Encina
[4]Watson, Lella Beatrice A.M., Kansas, 1915	Santa Ana	Fr. gr.	Madroño
Watson, Margaret Eva	Palo Alto	Engl. 132+66	Kap.Al.Theta-*1336*
[234]Watson, Vesta H. A.B., Nevada, 1924	Sonora, Ark.	Engl. gr.	251 Roble
[234]Watt, Geraldine Estelle	San Francisco	Hist. 160+83	Pi Beta Phi-*1332*
Wattenberger,Norton Edward	PaloAlto	Econ. 10·121+19	234 Fulton-p
Watterson, Jerome Wilfred A.B., Stanford, 1924	Bishop	Econ. 180+70	117 Toyon-*721*
[5]Watterson,Whittier Caldwell	Bishop	Econ. 175+56	117 Toyon-*721*
Wayte, Paul Henry	Patton	LD 96+31	404 Encina-*126*
[3]Weaver, Arthur Filmer	San Francisco	LD 13–12	447 Encina
[24]Weaver,Clarence Eugene A.B., Stanford, 1922	StanfordUniv.	Phys. gr.	Amherst, M-*1157*
Weber, Verne Andrew	Fresno	LD 40–8	301 Encina
Webster, Calvin	Palo Alto	LD sp. 31–3	407 Cowper-p
Webster,Dorothy Elizabeth	Hurley,N.M.	LD 50+58	252 Roble
[5]Wedel, Oswald Henry A.B., Arizona, 1923; A.M., Stanford, 1924	Palo Alto	Hist. gr.	155 Alma-p
Weeden, S. Lydia	San Francisco	LD 45+19	373 Roble
Weichselfelder, Marguerite	Palo Alto	Econ. 6·162+190	456 Ruthven-p
Weigel, Stanley Alexander	Palo Alto	LD 107+100	205 Everett-p
Weil, Conrad, Jr.	Redwood City	LD 103+1	Box 263, rc
Weil, Theodore Mitchell	Redwood City	LD 64+11	Box 263, rc
Weisman, Theodore	Beverly Hills	LD 48+51	345 Encina
Weiss, Marie J.	Stockton	Math. 132+252	316 Roble-*677*
[1]Welch, Eleanor Elizabeth	Alta Loma	LD 60+12	265 Roble
[5]Welch, Whiting	San Francisco	LD 66–4	DeltaKappaEpsilon-*O*
[1]Wellington,Barbara Anne	San Francisco	LD 71+10	KappaKappaGamma
[5]Wells, Edward E., Jr.	Oakland	Econ. 15·113+18	51 Sequoia-*897*
[23]Wells, Gertrude Knox A.B., Mt. Holyoke, 1909, A.M., 1911	Providence, R.I.	Hist. gr.	Castilleja School-p
[12]Wells, Harrington A.B., Stanford, 1923, A.M., 1924	Stockton	Zool. gr.	359 Hawthorne-p
Wells, Loton Dutreux A.B., Stanford, 1924	San Francisco	Law 7·178+190	300 Branner-*605*
Wells, Walker Marshall	Selma	LD 45·45+11	110 Branner
Wells, William Bruce	San Francisco	LD 112+52	540 Encina
Welsh,RobertAbram,Jr.	Bellingham,Wn.	LD 33–8	225 Encina-*736*

Wenrick,Howard Pulver	Palo Alto	Min. 154+55	87 Sequoia
Wents, John Henry, Jr.	Fullerton	LD 38+8	16 Encina
Wentworth, Brandon	Boston,Mass.	LD 44+17	248 Encina
Wenzel, Robert Nicolas	Palo Alto	Chem. gr.	1112 Ramona-p
A.B., Stanford, 1916, Engineer, 1917			
[4]Wescott, Ruth Avery	Alhambra	Pre-Nurs. gr.	206 Roble-*1327*
A.B., Stanford, 1921			
West, Clarence Christopher	San Gabriel	LD 48+58	223 Encina-*1199*
West, Thomas Hume	Santa Ana	Min. 135+48	65 Sequoia-*816*
Westall, Lucy Adele	Sierra City	LD 15·78+72	339 Emerson-p
[12]Westerfield, Wanda	Riverside	LD 47+27	Gamma Phi Beta-*1337*
Westigard,ClarenceN.	Minneapolis,Minn.	Math. 135·45+38	620 Gilman-p
A.B., Stanford, 1924			
Weston, Anita Weltha	Palo Alto	LD 131+19	242 Middlefield-p
[4]Weyer, Frank Elmer	Hastings,Neb.	Educ. gr.	Toyon
Wheat, Gilbert Collins	Los Angeles	Law 137+127	DeltaKappaEpsilon
[12]Wheate, Lawrence S.	San Francisco	LD 40–17	28 Sequoia-*1088*
Wheaton, George Sterett	San Francisco	LD 44+26	302 Encina
Whisler, Hugh Levan	Portland,Ore.	LD 136+110	25 Sequoia-*688*
[3]Whitaker, Douglas M.	Stanford Univ.	LD 102+87	9 Alvarado-*995*
Whitaker, Leslie Stow	San Jose	Med. gr.	2229 Webster, SF-sf
A.B., College of the Pacific, 1922			
Whitaker,Louise Merritt	Stanford Univ.	LD 60+72	9 Alvarado-*995*
Whitcomb, Thayer W.	Fessenden,N.D.	Chem. 64·140+145	310 Toyon-*988*
A.B., Stanford, 1924			
White, Albert Cosad	Oakland	LD 10·152+44	120 Toyon-*90*
White, Allen C.	Camp Lewis, Wn.	LD 145+160	138 Toyon-*554*
[4]White, Anne Terry	Palo Alto	Engl. gr.	786 Palo Alto-p
Ph.B., Brown, 1918			
White, C. Bolton	Palo Alto	LD 44+28	171 Churchill-p
[5]White, Charles B.	Pasadena	Econ.-Law 176+46	250 Toyon-*565*
[3]White, Gene Loren	Los Angeles	LD 46–15	Phi Kappa Sigma
White, Harold LeRoy	Bakersfield	LD 138+70	Delta Chi-*602*
[5]White, Harry Dexter	Los Altos	Econ. 109·61+90	Los Altos-la
[4]White, Helen G.	Fresno	LD ‡	Madroño
White, John Robert, III	Glendale	Econ. 40·91+29	Sigma Chi-*628*
[1]White, Margaret Emily	Palo Alto	Zool. 181+98	171 Churchill-p
A.B., Stanford, 1924			
White,Robert Jenkins	Los Angeles	Econ. 136+9	Alp.TauOmega-*1384*
Whitehead,Seward Samuel	RedwoodCity	LD 86–8	Theta Xi-*1355*
Whitfield,Glenn Everett	Rosalia, Wn.	LD 90+114	Delta Chi-*1304*
[4]Whiting, John Martin	Mapleton, U:	Educ. gr.	305 Union
A.B., Brigham Young, 1919			

[5]Whitmore,Max Montgomery Nephi,U. Econ. 120+54 Kappa Alpha
[4]Whitney, Dorothy Milton, Ore. Cl. Lit. gr. 324 Emerson-p
A.B., Oklahoma, 1922
Whitney, Harold Benjamin Wichita,Kans. Econ. 106·75+88 322 Union
A.B., Stanford, 1924
Whitney, Helen Mason Berkeley Law 182+106 Alpha Phi
A.B., Stanford, 1924
[12]Whittemore, James A. Stanford Univ. Geol. 146–12 Base Hospital-p
[4]Whittlesey, Theodosia E. San Francisco Cl. Lit. gr. 2700 Jackson, SF-sf
A.B., Chicago, 1902
[12]Wicht, Harold L. P. Mayfield LD 11·70+9 Community House
Widaman, Perry Davisson Los Angeles LD 126+12 Alpha Delta Phi-*J*
Widaman, Wendell Oliver Los Angeles LD 93+56 209 Branner-*575*
Widmann, Charles A. Palo Alto LD 80+47 450 Melville-p
Wiedmann,Milton Lawrence Oakland LD 92·34+68 132 Branner
[234]Wiggin, John Louis Bombay, India LD 23+4 375 Coleridge-p
Wight,Joseph Edward Stanford Univ. M.E. 113·86+58 Theta Xi-*1355*
A.B., Stanford, 1924
[4]Wight, Margaret Virginia Palo Alto Fr. 15+0 Base Hospital-p
Wight, Roland Henry Mayfield LD 46+54 Mayfield-Box 246, p
Wilber, Alice Ellen Fullerton Engl. 135·45+50 274 Roble-*627*
A.B., Stanford, 1924
Wilber, M. Louise San Francisco Econ. gr. Madroño
A.B., Stanford, 1923, A.M., 1924
[4]Wilbourn, Brooksie W. Hernando, Miss. LD sp. 327 Roble
Wilbur, Dwight Locke Stanford Univ. Med. gr. 2165 Calif., SF-sf
A.B., Stanford, 1923
[4]Wilbur, Elizabeth L. Stanford Univ. LD 16–6 Kingscote-854
[5]Wilbur, Lois Proctor Stanford Univ. LD 56+19 266 Roble-*70*
[5]Wilbur, Paul Curtis Palo Alto Chem. gr. 347 Alma-p
A.B., Stanford, 1924
[12]Wilcox, Chester Arthur Palo Alto E.E. gr. 135 Harriet-p
A.B., Stanford, 1923
Wild, Arthur Chicago, Ill. Econ. 90·40–2 115 Branner
[234]Wildanger, Derril Field Elk Grove Zool. 105·42+69 179 Roble
[4]Wildhagen, Emily Juliana San Jose LD ‡ 1119 The Alameda, SJ-sj
[23]Wildman,Mary Frances Stanford Univ. Econ. gr. 37 Salvatierra-*1364*
A.B., Stanford, 1922
[12]Wiles, George Webster Stanford Univ. C.E. 4·135+81 Stanford
[1]Wiley, Elton Harrison Palo Alto Econ. sp. 50+5 120 Kingsley-p
[4]Wiley, Will E. The Dalles, Ore. Educ. gr. 362 Hanover, M
A.B., State College of Washington, 1920
[5]Wilhelmson, Carl Tammerfors, Finland Engl.-Jn.5·163+236 523Encina-*903*
[12]Wilkey, James Roberts Los Angeles LD 44–26 31 Sequoia-*1277*

Wilkie, Charles Daniels Wheeling, W.Va. Econ. 181+59 115 Alma-p
A.B., Stanford, 1924
[4]Wilkinson, William D. The Dalles, Ore. Geol. gr. 101 Waverley-p
A.B., Oregon, 1923
[4]Willard, Oliver M. San Francisco LD 250 Churchill-p
[124]Willcox, Marie Louise Atherton LD 20–12 223 Roble-*584*
[5]Williams, Alta Ainsworth, Neb. Psych. gr. 5 Cabrillo-*1142*
A.B., Stanford, 1924
[5]Williams, Bernice Marion San Francisco LD 61–8 339 Roble
Williams, Byron Drew Los Angeles LD 90+65 104 Branner-*526*
Williams, Elizabeth Moody Palo Alto LD 46+11 370 Roble
[12]Williams, Emeline Helmbold Palo Alto Phil. 120+112 Alpha Phi
[12]Williams, Eva Mae Redlands Engl. 52·134+110 200 Roble-*121*
A.B., Stanford, 1924
Williams, F. Iola Madera Econ. 47·141+82 Pi Beta Phi-*1332*
A.B., Stanford, 1924
[4]Williams, Fleta Hazel Stanford Univ. Chem. gr. 1 Arguello-*44*
A.B., Stanford, 1920
[23]Williams, Florence S. Twin Falls, Ida. LD 71·33+32 223 Roble
Williams, Gordon Harry Quincy, Ill. LD 81–4 Alpha Delta Phi-*J*
[12]Williams, Gwladys Louise Berkeley Span. gr. Madroño
A.M., California, 1922
Williams, Hal St. Clair Los Angeles LD 28+0 234 Encina
Williams, Harry A. Santa Clara C.E. 51·101+87 1146 Lincoln, SC-sc
Williams, John Sheldon, Jr. San Jose Law 140+117 875 Plaza Drive, SJ-sj
Williams, Joseph Hunt Ross LD 41–5 244 Encina
Williams, Robert Eldred Pasadena LD 39–5 246 Encina
[4]Williams, Rosemonde F. Galveston, Tex. Span. gr. 208 Roble
A.B., Texas, 1917
[23]Williams, Sidney Manon Oakland LD 30+3 332 Encina
Williams, Thomas B. San Francisco Med. gr. 2321 Sacramento, SF-sf
A.B., Stanford, 1921
[23]Williamson, George Gregory Palo Alto LD 31+26 400 Channing-p
[1]Williamson, Roy Franklin Sebastopol Econ. 10·177+50 Delta Kappa Eps.
A.B., Stanford, 1924
Williamson, Vera Alberta Hollywood LD 47+14 273 Roble-*63*
[1]Williard, Henry Ormiston San Jose Law 30·130–7 327 Union
[4]Willibrand, William A. Freeburg, Mo. Fr. gr. 312 Union
A.B., Missouri State Teachers College, 1919; A.M., Chicago, 1921
Willis, H. Paul Wichita, Kans. Econ. 141+123 57 Sequoia-*703*
Willis, Henry James Redlands Econ. 131+51 323 Union-*1061*
*[23]Willis, Robin Stanford Univ. Geol. gr. Princeton, N. J.
A.B., Stanford, 1920, A.M., 1922, Ph.D., 1924

Willis-Porter, R.	Manila, P.I.	Hist. gr.	235 Union
A.B., Baker, 1910			
[1]Williston,Preston Eugene	Gridley	LD sp. 69+37	405 Kipling-p
[5]Willits, John M.	Palo Alto	LD 8·154+210	221 Alma-p
Willoughby,Raymond R.	Stanford Univ.	Psych. gr.	113 Branner-*146*
B.S., Massachusetts Agricultural, 1919; A.M., Stanford, 1923			
Willson, Harold Orvis	Sunnyvale	LD 45·41+0	Box 298, s
Wilson, Albert	San Francisco	LD 40+1	102 Middlefield-p
Wilson, Charles J., Jr.	Woodlake City	LD 59+15	330 Encina-*1051*
[4]Wilson, Dorothy W.	Los Angeles	Engl. gr.	Roble
A.B., Stanford, 1923			
[12]Wilson, Ernest Howard	Palo Alto	LD 28–54	435 Tasso-p
Wilson, Francis Eugene	Stanford Univ.	Econ.20·160+45	PhiGam.Del.-*1324*
A.B., Stanford, 1924			
[5]Wilson, George Howard	Los Angeles	Law 188+147	Alpha Delta Phi-*J*
Wilson, Gerard	San Jose	E.E. gr.	245 Toyon-*656*
A.B., Stanford, 1922			
[23]Wilson, James Charles	Fresno	LD 30+4	105 Encina
[23]Wilson, James Hood	Carmel	LD 81–15	Sigma Nu-*1385*
[4]Wilson, John Willard	Hazelton, Ida.	Sch. Ed. gr.	115 Alma-p
A.B., Colorado State Teachers College, 1922			
Wilson, Joseph Dwight	Rufus, Ore.	Med. gr.	2202 California,SF-sf
A.B., Oregon, 1922			
[12]Wilson, L. Maxine	Orange	LD 32+25	156 Roble
[12]Wilson, Louise Ede	Palo Alto	LD 74+72	860 University-p
Wilson, Lucille Mortimer	Palo Alto	LD 58+42	459 Ruthven-p
Wilson, Marjorie Edith	Los Angeles	LD 34–8	237 Roble
[5]Wilson, Martel D.	Stockton	LD 79–10	SigmaAlphaEps.-*1305*
Wimmer, Shirley D.	Salt Lake City, U.	Med. gr.	2286 Jackson, SF-sf
A.B., Stanford, 1922			
[4]Windham, James B.	Long Beach	LD ‡	
Windsor, Gerald Pryce	Los Angeles	LD 87+0	206 Branner-*531*
Windt, Bernice	San Francisco	LD 79+75	255 Roble-*544*
Wingard, Francis Eugene	Long Beach	LD 80+7	Theta Xi-*1355*
Wingate, Harold Birkmyre	Oakland	LD 47–18	Alpha Delta Phi-*J*
Winkler, Kemp Julius	Los Angeles	Engl. 88·106+49	114 Branner
A.B., Stanford, 1924			
[4]Winn, Joseph William	Fresno	Educ. gr.	Mountain View-mv
A.B., Fresno State Teachers College, 1923			
[5]Winn, Montgomery E.	Warsaw, Ky.	Law gr.	Alpha Sigma Phi-*1357*
A.B., Stanford, 1923			
Winn, William Alma	SaltLakeCity,U.	LD 59·47+19	434 Encina-*919*
Winnek, Victor Charles	San Diego	LD 46+11	201 Encina

[12]Winston, W. Lawrence	Belmont	LD 6–1	Belmont
[12]Winter, Arthur F.	Chinook, Mont.	LD sp. 8·81+0	405 Kipling-p
Winterbotham, Edward L.	Riverside	LD 60+105	222 Encina-*554*
[4]Witherow, Sidney Daniel	Rivera	LD 38+17	Sigma Chi
Wittenberg,Howard E.	Terre Haute,Ind.	Econ.170+241	Phi Kappa Psi-*1333*
Wittenberg,Ralph Kerr	Terre Haute,Ind.	LD 86+39	Phi Kappa Psi-*1333*
Wocker, Hermine	San Francisco	Pol. S. 129+118	Alpha Phi
[1]Woerner, S. Edith A.B., Stanford, 1923	Palo Alto	Hist. gr.	453 Hawthorne-p
[1]Wolf, Ernest H.	Forest Grove, Ore.	M.E. ‡ 13+1	164 Hawthorne-p
Wolf, Paul Theodore	San Francisco	Law 135+112	216 Branner-*704*
[23]Wolfe, Franklin DeKalb	Fresno	LD 75–5	Sigma Nu-*1385*
[5]Wong, Hung Chau	San Francisco	Chem. 156+47	Chinese Club-*11*
Wood, Carleton Ball A.B., Stanford, 1924	Oakdale	Law 188+41	203 Union
[5]Wood, David Alvra	Gooding, Ida.	LD 93+64	87 Sequoia
Wood, Dennistoun, Jr.	Palo Alto	LD 46+84	809 Lincoln-p
[4]Wood, Elsie M. A.B., Stanford, 1901	San Jose	Pol. S. gr.	998 So. 7th, SJ-sj
[1]Wood, Francis Hugh	Spencer, Ida.	LD 52–24	Phi Kappa Psi
Wood, Henry Carroll	Palo Alto	LD 73+1	131 Lytton-p
[12]Wood, Ira Eaton	San Jose	LD 33+55	525 S. 6th, SJ-sj
Wood, Jessie Shirley	Merced	LD 51+76	334 Roble
Wood, Walter Jordan	Whittier	LD 30+2	235 Encina-*644*
[23]Woodhead, Orton Clifford	Chino	Econ. 90·38–24	*243 Toyon-605*
[4]Woodin, Abbie A.B., Kansas, 1903, A.M., 1911	Sacramento	Span. gr.	503 So. 6th, SJ-sj
Woods, Vinton Tyrrell A.B., Stanford, 1924	Los Angeles	Law 88·92+64	201 Branner
Woodward, Tyler Francis A.B., Stanford, 1924	Los Angeles	Econ. 180+42	DeltaKap.Eps.-*O*
Wool, Fred Austen	San Jose	LD 44+65	126 Encina
Woolf, Henriette K.	Greeley, Colo.	Psych. 140+154	181 Roble-*626*
Woolsey, Karl Almond	Phoenix, Ariz.	LD 81·19+0	529 Encina
[5]Worden, John Bairsto	San Francisco	LD 74–7	Theta Chi-*1383*
[1]Worden, Norton Earl	Glendive,Mont.	LD 28–47	14 Sequoia
[13]Work, Thomas Albert	Pacific Grove	LD 26+16	531 View, MV-mv
Working, Paul Drury	Wilsall,Mont.	LD 109–6	111 Toyon-*605*
[4]World, Caleb William A.B., Utah, 1917	SaltLakeCity,U.	Math. gr.	223 Toyon
Worswick, Mildred	San Jose	LD 73+38	268 Roble
[4]Worthing, Jackson Baxter Ph.B., Chicago, 1911	Pacific Beach	Hist. gr.	752 Middlefield-p

[7]Wrenn, Heaton Luse — Burlingame — Law gr. — Phi Delta Theta
A.B., Stanford, 1922, J.D., 1924

Wright, Andrew Curtis — Palo Alto — M.E. 160+59 — Theta Chi-*1383*

Wright, James Chalmers — Riverside — Chem. 141+89 — 114 Toyon-*1254*

[124]Wright, Julian Chapman — Hollywood — Phil. 116+32 — 433 Encina

Wright, Milton Edgar — San Jose — Law gr. — 750 Emory, SJ-sj
A.B., Stanford, 1922, J.D., 1924

Wright, Norma Knowles — Los Angeles — LD 43+4 — 251 Roble-*22*

Wright, Phillip Edwards — Sausalito — LD 50+31 — 355 Encina

[4]Wright, Ralph W. — San Jose — LD ‡ 14–10 — Phi Delta Theta

[23]Wright, Raymond O. — Stanford Univ. — Econ. 95·86+5 — 28 Sequoia
A.B., Stanford, 1924

Wright, Robert Edward — Manila, P.I. — Hist. 112+39 — 562 Encina-*1156*

[1]Wright, Samuel V., Jr. — San Luis Obispo — Bot. 122+196 — 947 Waverley-p

[23]Wright, Selden Stuart — Stanford Univ. — LD 59+0 — PhiKap.Sigma-*1306*

Wright, Wallace — Rochester,N.H. — Econ. gr. — 224 Union
A.B., Dartmouth, 1919; A.M., Stanford, 1924

[5]Wright, William Beatty — Stanford Univ. — LD 124+2 — Phi Kappa Sigma-*1306*

Wright, William Edward — Stockton — Law 180+212 — Theta Chi-*1383*
A.B., Stanford, 1924

Wright, William Lawton — Omaha, Neb. — LD 92+36 — Kappa Alpha-*1356*

[5]Wright, William Quinby, Jr. — Sausalito — LD 138+144 — Kappa Alpha

[5]Wu, Chin-Chuan — Kiangyin, China — Chem. 90·42+*26* — 329 Union-*1130*

[4]Wurzbach, Genevieve Shupe — Berkeley — Sch. Ed. gr. — Mayfield
A.B., California, 1920

[12]van Wyck, Cecil van A. — TheHague,Hol. — Econ. 31·149+0 — Delta Ups.-*1353*
A.B., Stanford, 1924

Wylie, Maurice Monteith — Denver, Colo. — LD 91+18 — 235 Branner

Wyman, Frances Marie — Glendale — LD 41–9 — 376 Roble

Wynne, Margaret Ogier — Berkeley — Sch. Ed. gr. — 611 Waverley-p
A.B., Stanford, 1908

[124]Yamasaki, Seizi — Kagoshima, Japan — Econ. 138+61 — Japanese Club-*598*

Yang, Ko-Chuen — Hofei,Anwhei,China — Math. 135·45+68 — Chinese Club-*960*
A.B., Stanford, 1924

[13]Yang, Liang Kung — Anwhei, China — Educ. gr. — Chinese Club-*1079*
A.B., National University of Peking, 1920; A.M., Stanford, 1924

[1]Yarnell, George A. — Los Angeles — LD 16+1 — 500 Encina

[1]Yates, Robert Clinton — San Francisco — LD 14–25 — Encina

[4]Yeh, Dorothy — Shanghai, China — LD ‡ — Everett ave.-p

Yoakum, Frank B., Jr. — Los Angeles — LD 37–2 — 232 Encina

[4]Yoder, Arthur Elias — Salinas — Educ. gr. — 204 Union
Pacific University, 1902

Yost, Russell Thorpe — Stockton — Econ. 181+160 — 409 Encina-*1038*
A.B., Stanford, 1924

Young, Clarence Whitford	Palo Alto	Psych. 43·94+84	222 Fulton-p
Young, Dwight Dunham A.B., Stanford, 1923	Fresno	Med. gr.	925 Chestnut, SF-sf
Young, Everett Hale	Fair Oaks	LD 5·93+46	PhiDeltaTheta-*1334*
[4]Young, Fred Garfield A.B., Swarthmore, 1913	San Luis Obispo	Hist. gr.	Phi Delta Theta-*1334*
[34]Young, Henry Marcus	San Diego	LD 12+1	102 Encina
[3]Young, Lloyd Coleman	Los Angeles	LD 37–21	Delta Kappa Epsilon
[4]Younkin, Daniel G. B.S., Arizona, 1924	Tucson, Ariz.	Educ. gr.	Alexandria Hotel-p
[4]Zabel, Amanda Louise A.B., North Dakota, 1916	Valley City, N.D.	Sch. Ed. gr.	264 Roble
Zaches, John Alex	Monterey	LD 62–4	427 Encina-*841*
[4]Zaelke, Mary A.B., Iowa State Teachers College, 1917	Marion, Ia.	Sch. Ed. gr.	375 Everett-p
[3]Zahner, Carl John	San Joaquin	LD sp. 9–11	1336 Cowper-p
[2]Zane, Sim Lessard	Eureka	LD 65–20	Phi Delta Theta
Zeigler, Harold M.	Los Angeles	LD 44+35	207 Encina-*1050*
Zener, Clarence M.	Vincennes, Ind.	LD 33·57+69	415 Encina
Zener, Katharine Frances	Vincennes, Ind.	Psych. 81·47+39	308 Roble-*1337*
Zieber, Fred Henry	Palo Alto	LD 44+30	442 Encina
[5]Zieber, R. Lee	Palo Alto	Pre-Med. 62·55+15	635 Bryant-p
Ziller, Madeline Veronica	Cloverdale	Hist. 162–8	238 Roble-*1114*
[4]Zimmerman, William K.	Harvel, Ill.	LD ‡	317 Union
Zschokke, Anna Thuretta	Palo Alto	LD 44+34	526 Forest-p
Zucco, Gaetan Mare	San Francisco	LD 49+90	332 Encina
[3]Zuck, Leo Harold	Lundville, Mont	LD 10–2	19 Salvatierra
[4]Zyve, Clara Edith	Greeley, Colo.	Sch. Ed. gr.	720 Lincoln, M-*898*
Zyve, David L. M.S., Grenoble, 1911	Greeley, Colo.	Educ. gr.	720 Lincoln, M-m

SUMMARIES

OFFICERS

Trustees		15
Academic Council—rank of		
Professor	113	
Associate Professor	49	
Assistant Professor	28	
Total (less 5 absent on leave)		185
Other Teaching and Administrative Officers—rank of		
Emeritus Professor	11	
Clinical Professor	11	
Associate Clinical Professor	8	
Assistant Professor	10	
Assistant Clinical Professor	20	
Lecturer	19	
Instructor	57	
Clinical Instructor	29	
Associate	6	
Administrative Officer	35	
Total (less 3 absent on leave)		203
Assistants		
Instruction	64	
Research	11	
Administration	92	
Medical School	50	
Library	39	
Technical	54	
Total (less 0 absent on leave)		310
Grand Total		698

STUDENTS

	Autumn	Winter	Spring	Summer	For the Year
Graduates	429	440	420	375	861
Undergraduates	2327	2292	2142	534	2725
Special Students	47	30	29	27	69
Total	2803	2762	2591	936	3655

By Major Subjects

	Graduate	Undergraduate	Special	Total
Anatomy	2	—	—	2
Bacteriology and Experimental Pathology	4	4	—	8
Biology—School of	5	11	—	16
Botany	12	6	—	18
Chemistry	51	59	—	110
Classical Literature	13	8	—	21
Economics	25	286	3	314
Education—School of	82	2	—	84
—Division of	134	36	—	170
—Graphic Art	3	19	—	22
Engineering—Civil	14	39	1	54
—Electrical	15	—	1	16
—Mechanical	13	97	1	111
English	66	87	1	154
Geology	38	43	1	82
Germanic Languages	3	2	—	5
History	38	86	—	124
Hygiene	1	—	—	1
Law	93	‡195	2	290
Lower Division	—	1520	57	1577
Mathematics	8	16	—	24
Medicine	118	†32	—	150
Military Science and Tactics	—	1	—	1
Mining and Metallurgy	19	29	1	49
Pharmacology	2	—	—	2
Philosophy	6	19	—	25
Physics	4	3	—	7
Physiology	5	8	—	13
Political Science	9	23	—	32
Pre-Clinical	—	20	—	20
Pre-Medical	6	50	—	56
Pre-Nursing	1	1	—	2
Psychology	17	13	—	30
Romanic Languages—French	17	23	1	41
—Spanish	20	15	—	35
Social Sciences—School of	1	—	—	1
Zoology	8	8	—	16
—Entomology	8	5	—	13

† Including Chemistry majors, 4; Physiology majors, 4; Pre-Clinical majors, 20; School of Biology majors, 3.

‡ Including Economics majors, 8; History majors, 2.

By Residence—For the Year

California	2708	Iowa	9	Alabama	1
Oregon	96	Massachusetts	9	Delaware	1
Washington	76	Wyoming	9	New Hampshire	1
Arizona	64	New Jersey	7	South Carolina	1
Utah	62	New Mexico	7	Vermont	1
Idaho	57	Wisconsin	7		
Colorado	38	Arkansas	4	China	29
Montana	36	Kentucky	4	Hawaii	19
Illinois	33	Mississippi	4	Canada	18
Missouri	32	South Dakota	4	Japan	13
Ohio	31	Washington, D. C.	4	Philippine Islands	10
Nevada	26	Connecticut	3	Alaska	6
Nebraska	25	Louisiana	3	Belgium	4
New York	25	Rhode Island	3	Holland	4
Texas	23	Tennessee	3	India	3
Oklahoma	22	Florida	2	England	2
Indiana	21	Georgia	2	Greece	2
Pennsylvania	20	Maine	2	Mexico	2
Kansas	17	Maryland	2	Russia	2
Minnesota	16	North Carolina	2	France	1
Michigan	15	West Virginia	2		

STANFORD ALUMNI ASSOCIATION

CONSTITUTION

Adopted June 21, 1924

The Stanford Alumni Association is organized to promote the common interests of Stanford, its graduates and former students, as represented by the activities of the University.

ARTICLE I: MEMBERSHIP

Section 1. Any person who has been a registered student of Stanford University is eligible for membership in this Association, and may become a member by payment of the annual dues; provided, however, that only members having bachelor's degrees from Stanford University shall be eligible to any elective office in this Association.

Section 2. All members of the faculty of Stanford University are honorary members of this Association.

ARTICLE II: OFFICERS

Section 1. The officers of this Association shall be the Alumni Council, consisting of nine elected members, three of whom shall be graduates of not less than ten years' standing; three of whom shall be graduates of not less than five years' standing; and three from any class as may be selected by the nominating committee, and who shall be elected for three-year terms with terms so arranged that but three members will retire in any one year; provided, however, that the members of the Advisory Board now in office, whose terms have not expired, and those elected in June, 1924, shall remain in office for the term for which they have originally been elected; one representative, elected by each graduating class, whose term shall be one year after graduation; and one representative from each local alumni club now organized or which may be hereafter organized with the approval of the Association and having a membership in good standing of at least one hundred graduates or former students, and for each additional one hundred like members in good standing the alumni club shall be entitled to one additional representative. The University Alumni Secretary shall be ex officio a member of the Alumni Council.

The club representatives shall be elected annually by the respective clubs.

On or before June 15th of each year, the several clubs shall furnish the secretary of the Alumni Association with the name of the representative or representatives chosen for the year beginning September 1st.

Section 2. The Alumni Council shall have general charge of all the affairs of the Alumni Association and the management of all its funds and properties. It shall have full power, and it shall be its duty to carry out the purposes of the Association according to the articles of the Association.

Section 3. The Alumni Council shall elect: (1) a President; (2) a Vice-President; (3) a Secretary-Treasurer; and (4) an Executive Committee. These officers shall be selected from, and the committee composed of, the nine elected members of the Council and the University Alumni Secretary, and shall be elected annually at the first regular meeting of the Council.

ARTICLE III: DUTIES OF OFFICERS

Section 1. It shall be the duty of the President to preside at all business meetings of the Association; to submit for the Alumni Council an annual report of the affairs of the Association; and to perform such other duties as usually belong to this office. The President shall be ex officio member of all committees.

Section 2. It shall be the duty of the Vice-President to preside in the absence of the President, and to perform all other duties belonging to this office.

Section 3. The Secretary-Treasurer shall keep the minutes of all meetings of the Association and of the Executive Committee; shall have the custody of all the books and papers; shall collect the fees and dues of members, and all moneys due or coming to the Association, and shall pay the same over to the bank or depositary of the Association. He shall disburse the funds of the Association under the direction of the Executive Committee. He shall keep the records and conduct the general correspondence of the Association, and make such reports to the Alumni Council as may be requested. He shall be ex officio member of all committees.

Section 4. The Executive Committee shall have all the powers of the Alumni Council when the Council is not in session, unless the Alumni Council shall, by a vote of two-thirds of those present, reserve certain powers unto itself. It shall be the duty of the Executive Committee: (1) to regulate the finances of the Association; (2) to pay the Secretary-Treasurer an adequate salary for services performed; (3) to direct the publication of the *Stanford Illustrated Review,* employing the edi-

torial staff and supervising the general policy of the *Review*; (4) to have the accounts of the Association audited at least once each year and report the audit to the Association; (5) to fill, for the unexpired term, all vacancies occurring by death, resignations, or otherwise; (6) to arrange for the program presented on any public occasion for or by the Association; (7) to perform such other duties as may be imposed upon it by the Council; (8) to attend to all the business of the Association not otherwise provided for in this constitution; (9) to canvass and secure recommendations from the local alumni clubs for candidates to be nominated for the Stanford National Board; (10) to appoint alumni members of the Board of Athletic Control, Union Board, or other boards or committees that the Alumni Association has authority to select, or desires to appoint; (11) to consult the alumni, undergraduates, faculty, and trustees, when it deems it advisable, in order to make recommendations regarding the welfare of the University and of the Alumni Association.

ARTICLE IV: DISTRICT DIVISIONS

Section 1. In order to bring the local alumni clubs and the general Alumni Association into closer relationship, the territory covered by alumni clubs shall be divided into twenty-two districts by the Alumni Council, as follows: (1) The Pacific Northwest; (2) the Southwest; (3) Central Mountain States; (4) Middle West; (5) Lake Region; (6) New England; (7) New York; (8) Middle Atlantic States; (9) the South; (10) Hawaiian and Philippine Islands; (11) Foreign Countries, and in California, a district corresponding with each Congressional district.

Section 2. Each local organization shall be known as the Stanford Alumni Club of ————————.

Section 3. The name "Associated Stanford Alumni Clubs" shall be used at all district and national meetings of alumni clubs.

Section 4. An annual meeting of each district shall be held at such time and such place as the officers of each district shall designate.

ARTICLE V: NOMINATIONS AND ELECTIONS

Section 1. The February issue of the *Stanford Illustrated Review* shall give notice of the annual nomination and election of officers of this Association. Said notice shall contain the names of the incumbent officers, and shall indicate the holdover members of the Alumni Council, and shall contain in full the provisions of this constitution relating to nominations and elections.

Section 2. The Executive Committee shall each year appoint a nominating committee of five members of the Council, at least three of whom shall not be members of the Executive Committee. The nominating committee shall make its report to the Executive Committee each year by the fifteenth day of March.

Section 3. Nominations may be made also by petition. A nominating petition must be signed by at least fifty members of the Association and must be filed in the office of the Secretary-Treasurer on or before the first day of April of the year for which the nomination is made, and shall be valid only if the consent to such petition is endorsed thereon by the person in whose behalf such petition is filed.

Section 4. On or before the fifteenth day of April of each year, the Secretary-Treasurer shall mail to every member of this Association whose dues for the current year have been paid, an official ballot containing all the nominations, with the addresses of the nominees and the number of proposers of each, and said ballot shall be published in the April issue of the *Stanford Illustrated Review*; provided, however, that where no contests occur, the Secretary-Treasurer shall be empowered to cast the ballot.

Section 5. Officers shall be elected at an annual election to be held at Stanford University on Alumni Day, between the hours of 9 o'clock a. m. and 12 o'clock noon. The Executive Committee shall have charge of the election. The elector may cast a written ballot in person, or by mail, addressed to the Secretary-Treasurer, marked "Ballot" and disclosing the sender's name, and enclosing a ballot in a plain envelope. Ballots so received shall be opened and cast only during the hours of election. The respective candidates receiving the highest number of votes shall be declared elected. A tie vote shall be decided by lot.

Section 6. No one whose annual dues are in arrears for the current year shall be entitled to vote or to hold office.

ARTICLE VI: DUES

Section 1. The dues of the Association shall be three dollars per year for each member thereof, which amount shall include a subscription to the monthly alumni publication.

Section 2. A member, upon payment into the treasury of the sum of fifty dollars, at any one time and for that purpose, shall be entitled to a life membership in this Association, including a life subscription to the monthly alumni publication, and shall not be liable for any further dues. All such life membership payments shall be kept in a separate fund, of which the interest only shall be used.

Section 3. All members who, prior to May, 1908, have paid five dollars, shall, if they desire, be exempt from further dues.

ARTICLE VII: FUNDS

Section 1. The receipts from dues and from miscellaneous sources, and the interest from life memberships, shall be known as the current fund and shall be used for the current expenses of the Association.

Section 2. At the end of each current year, or at prior time if so directed by the Executive Committee, all sums in the current fund in excess of two thousand dollars shall be transferred to the reserve fund. All sums thus transferred from the current fund to the reserve fund shall be deposited in trust with the Board of Trustees of Stanford University, to be invested.

The income earned by the reserve fund may be withdrawn from time to time as directed by the Alumni Council, to be used for the purposes of the current fund; but there shall be no such withdrawal during any one year of an amount in excess of the earnings of the reserve fund for the year next preceding the year of such withdrawal.

Section 3. At such time as the reserve fund shall exceed the principal amount of twenty-five thousand dollars, then all sums in excess of said principal sum of twenty-five thousand dollars at the end of each current year may be used for the purposes of Stanford University at such time and in such amounts as may be determined by the Alumni Council, with the advice and consent of the Board of Trustees of the University.

Section 4. The Alumni Council may accept donations of funds for the promotion of the purposes of the Alumni Association, and shall apply such donated funds according to the conditions specified by the donor. Such funds shall be deposited in trust with the Board of Trustees of Stanford University, and may be withdrawn by the Alumni Council and expended only as specified in the trust created by the donor.

ARTICLE VIII: MEETINGS

Section 1. Of the Association. The annual meetings shall be held on Alumni Day of each year, and other meetings of the Association shall be held at such time as the Executive Committee shall determine. Notice of meetings of the Association shall be mailed by the Secretary to all members of the Alumni Council and to all alumni clubs, at least thirty days prior to the time of holding the meeting. All meetings of the Alumni Association shall be held at Stanford University.

Section 2. Of the Alumni Council. There shall be a spring meeting of the Alumni Council each year at Stanford University, the exact time to be determined by the Executive Committee. Special meetings of the

Alumni Council may be called at any time by the President or by a majority of the Executive Committee, but notice of such meetings and of the regular meeting must be mailed to each member at least four weeks in advance. In the case of special meetings, the Secretary-Treasurer shall specify the object or objects for which the meeting is called, and no business shall be transacted at such meeting other than that specified in the notification of the meeting.

Section 3. Of the Executive Committee. The Executive Committee shall meet at regular stated intervals to be determined by the committee. Special meetings shall be held at the call of the President of the Alumni Council, or of a majority of the members of the committee, the place and purpose of the meeting to be designated in the notice of the meeting.

ARTICLE IX: QUORUM

A quorum shall consist, in the Association, of twenty-five members; in the Alumni Council, of twelve members; and in the Executive Committee, of five members.

ARTICLE X: AMENDMENTS

Any proposition to alter or amend these articles of Association must be proposed in writing, signed by one hundred members, and submitted to the members by mail in printed form by the Secretary-Treasurer, and voted upon in the same manner as are nominations for officers, and adopted by a majority vote.

ARTICLE XI: RULES OF ORDER

Robert's Rules of Order shall govern in all cases not provided for by the foregoing by-laws.

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